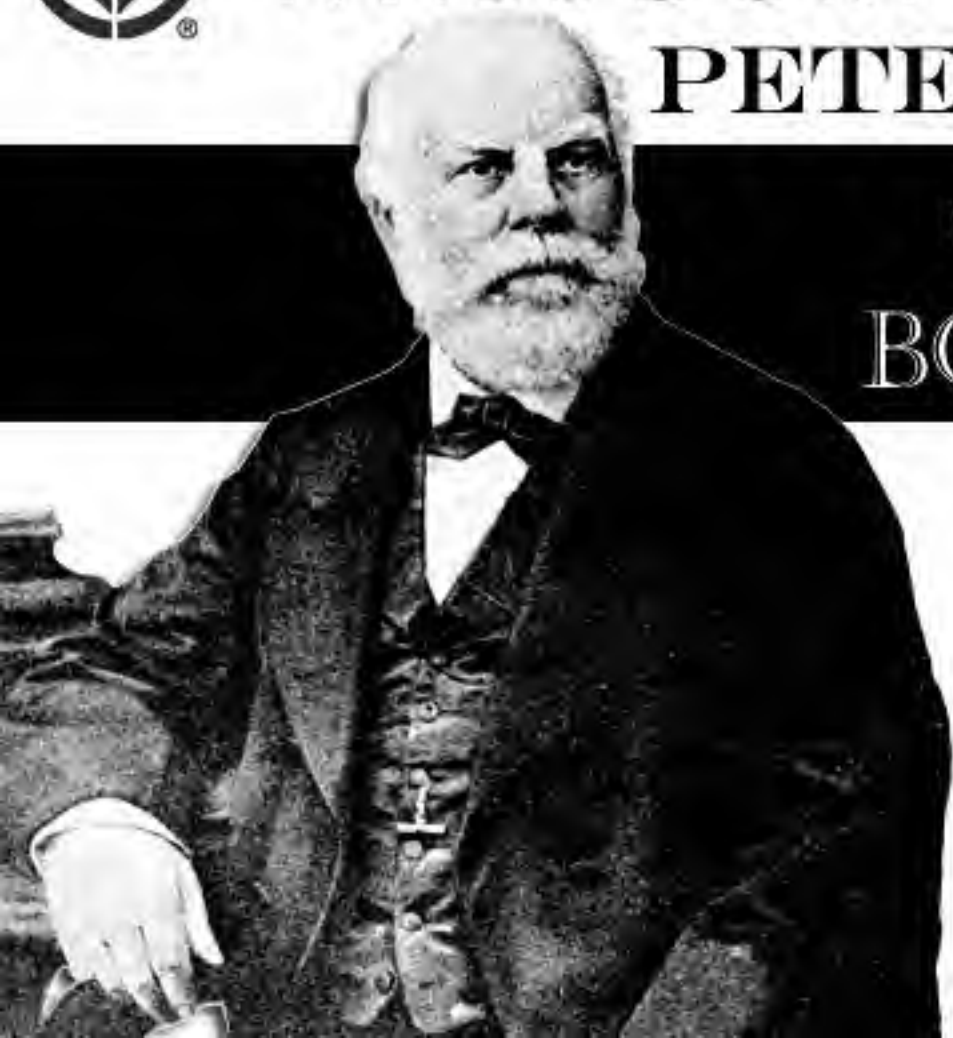




MISSOURI BOTANICAL GARDEN
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GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

Pagination Note:

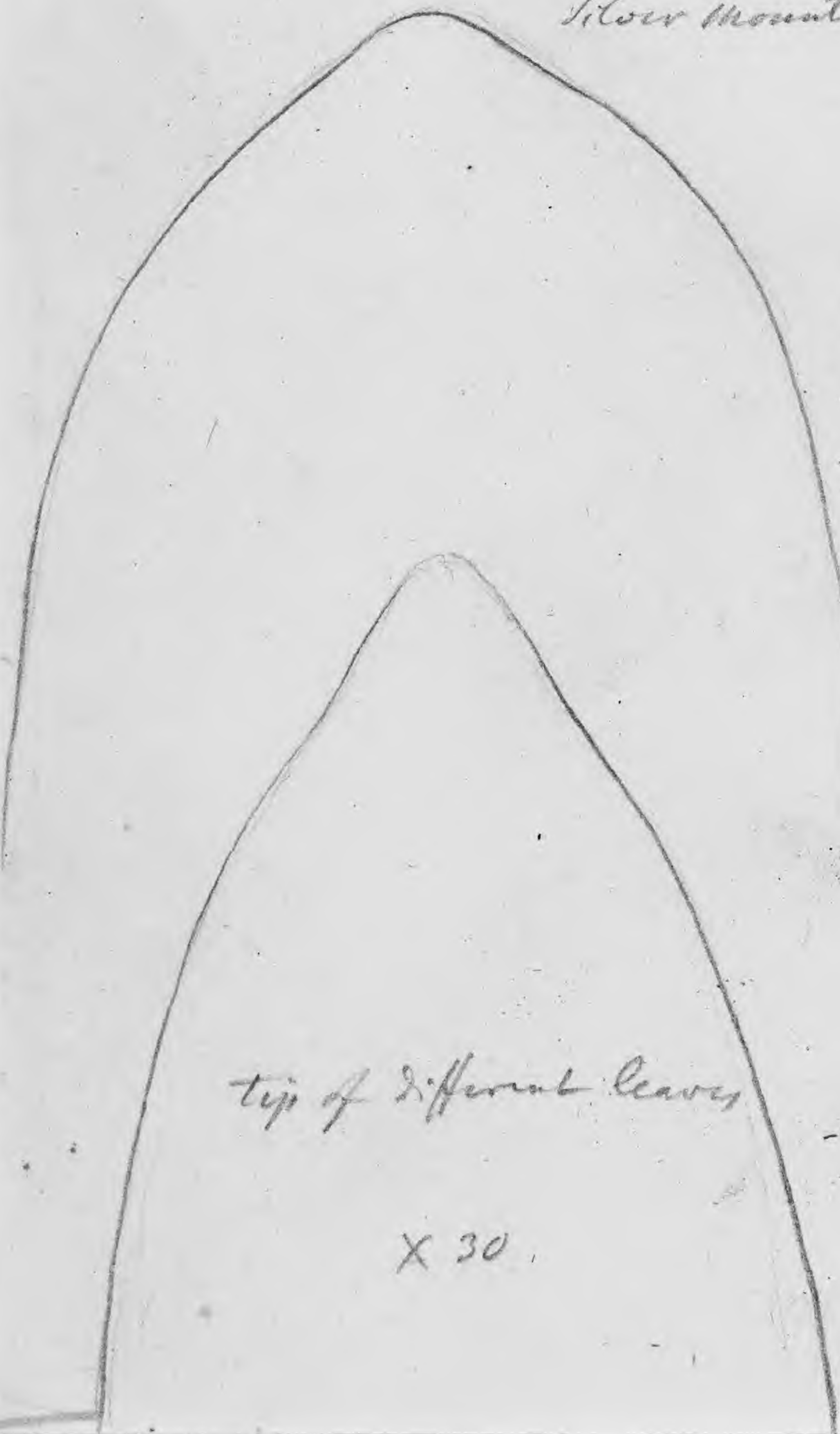
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

"Abies amabilis"

April 22 1871

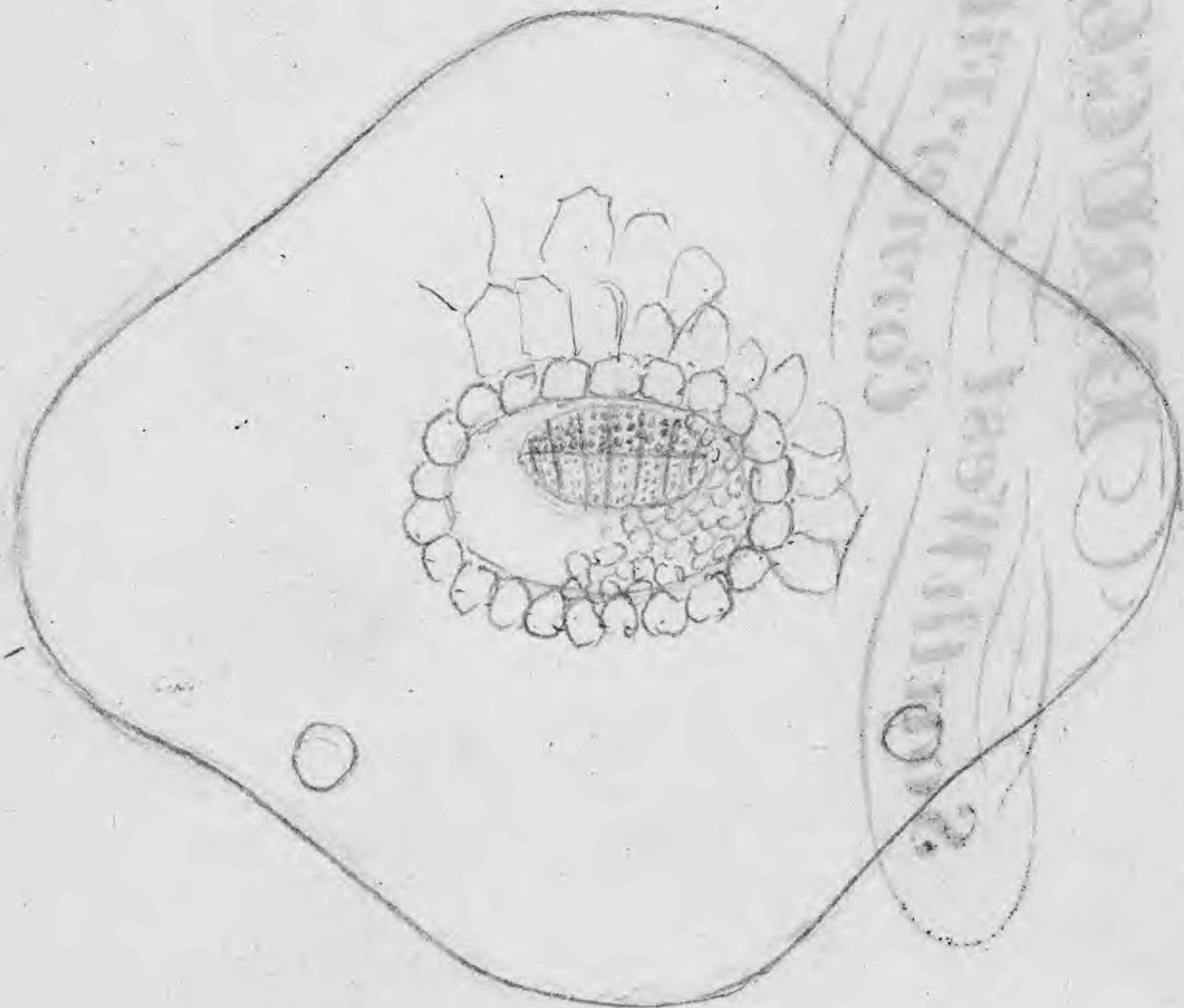
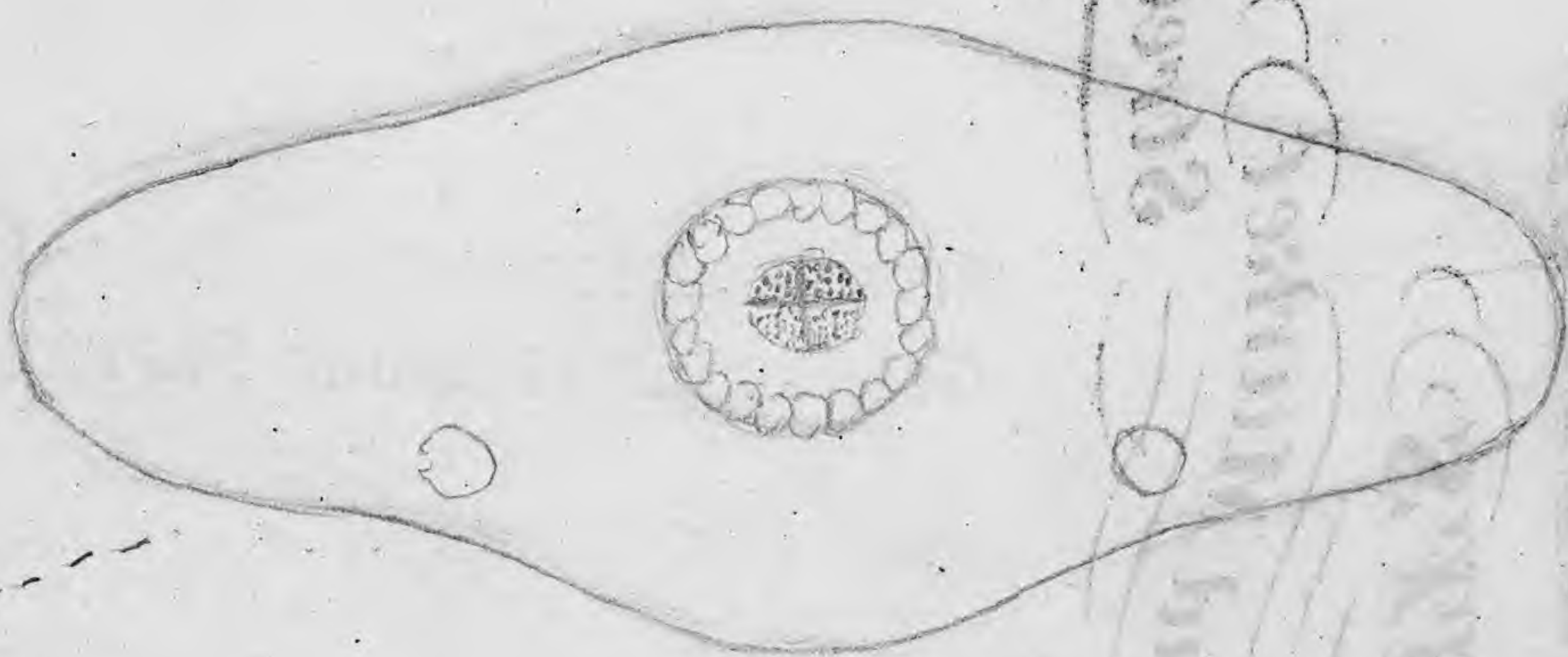
Silver Mountain trail, Calif. Prof. Brewer

leaves on the cone-bearing branchlet



tip of different leaves

X 30



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
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GARDEN

12627

Leitch & Corlies

Corrigan's

South West
Corner Fifth
and Market
Streets

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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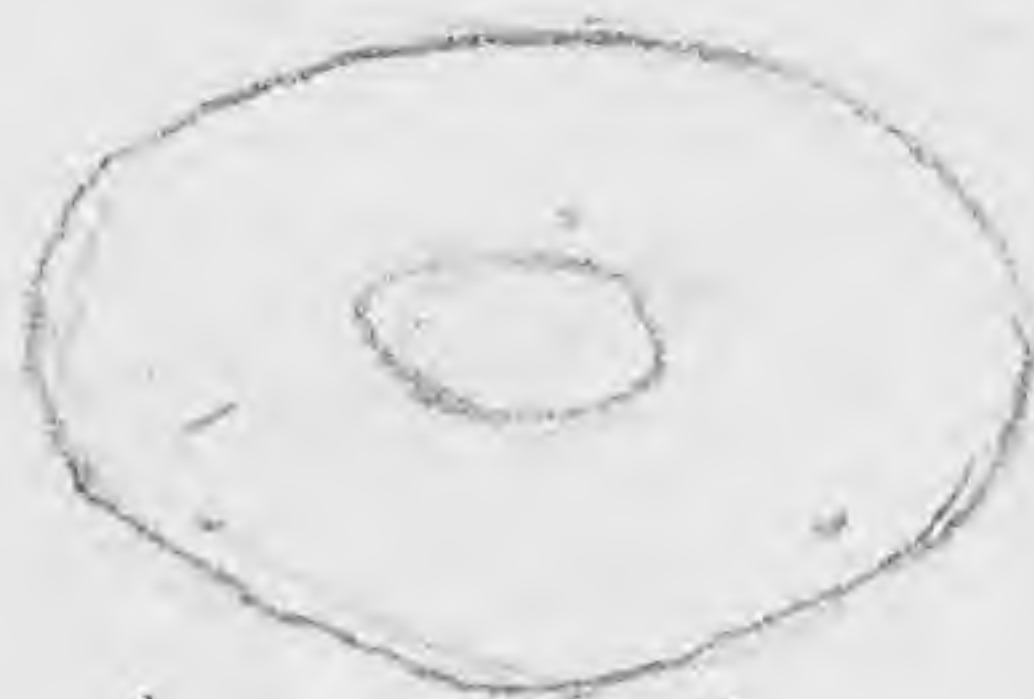
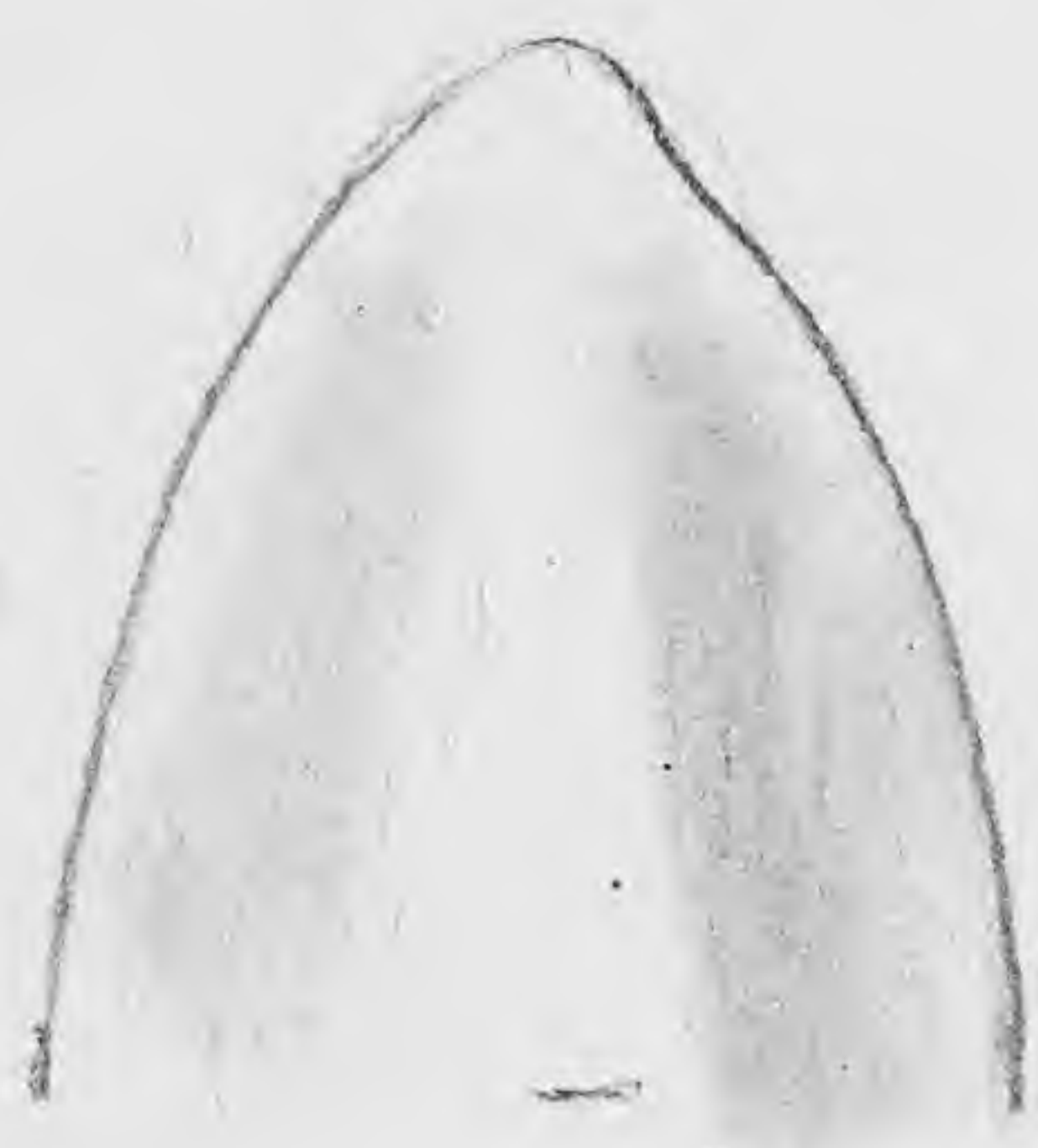


MISSOURI
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"*A. ambilis*"

April 12, 1892

Carson Pass, Brewer 2093



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GEORGE ENGELMANN PAPERS
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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

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Leitch & Corlies

DRUGGISTS

**South-west
Corner Fifth
and Market
Streets**

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0 1 2 3 4 5 6 7 8 9 10

cm

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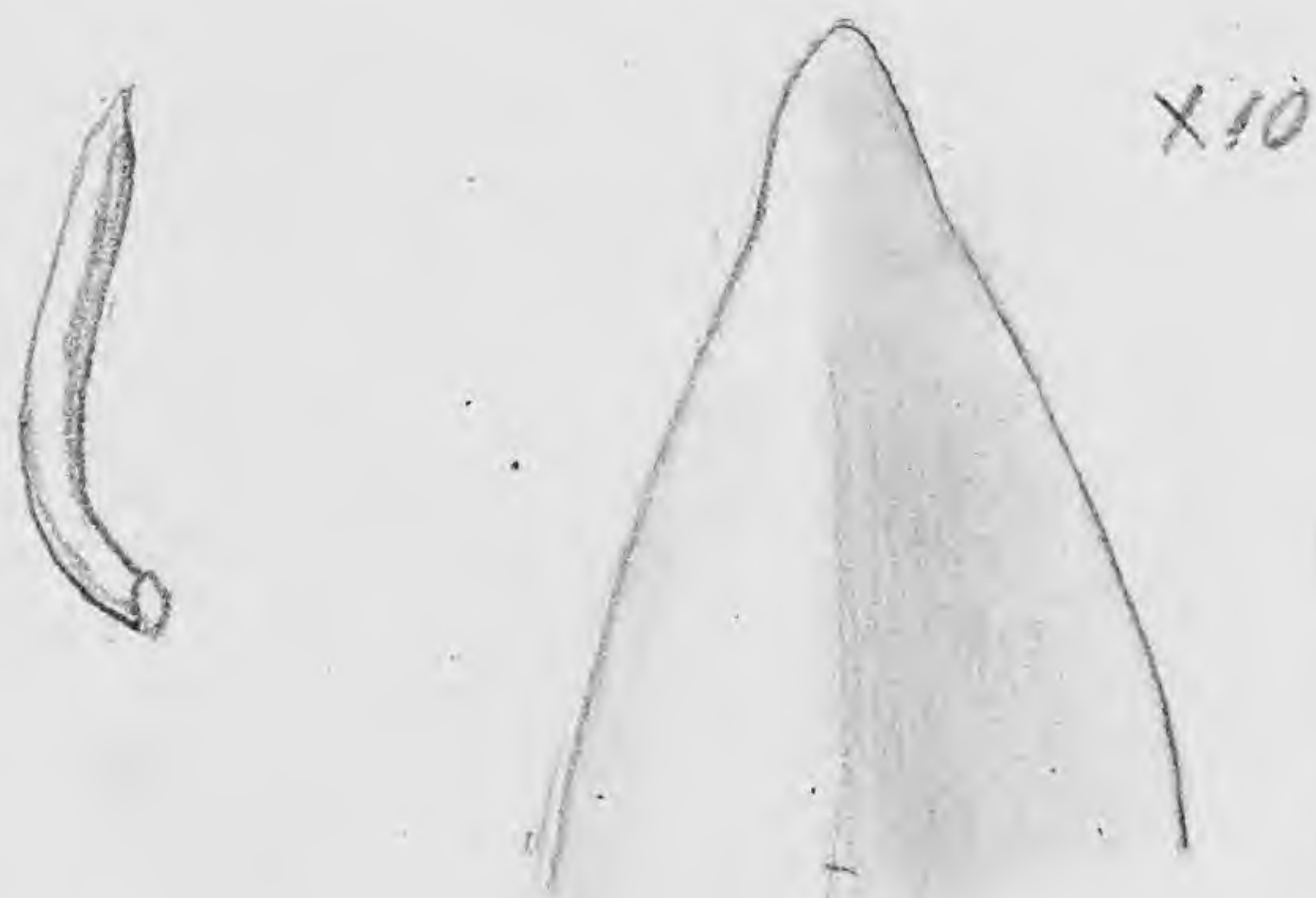
"*A. amabilis*"

April

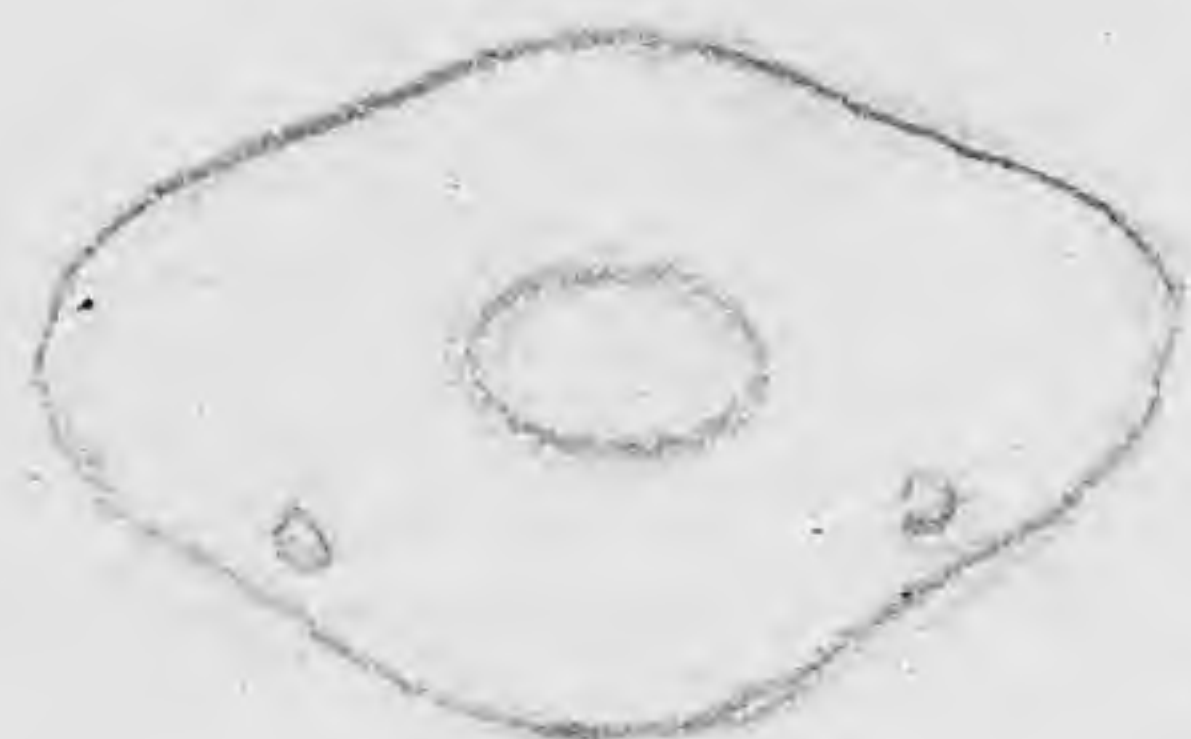
72

♀ leaves below the cones

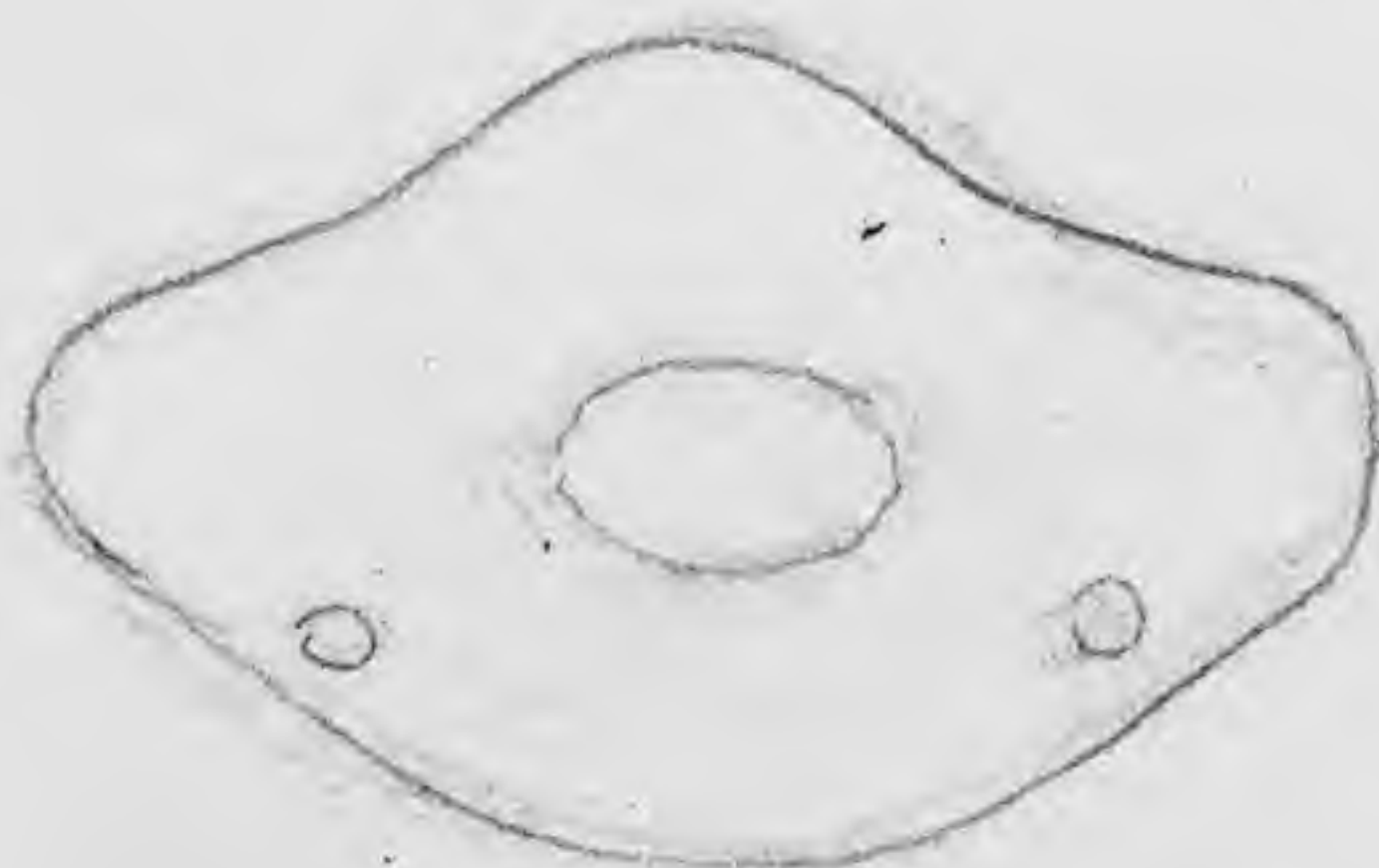
Holander, via Clark's



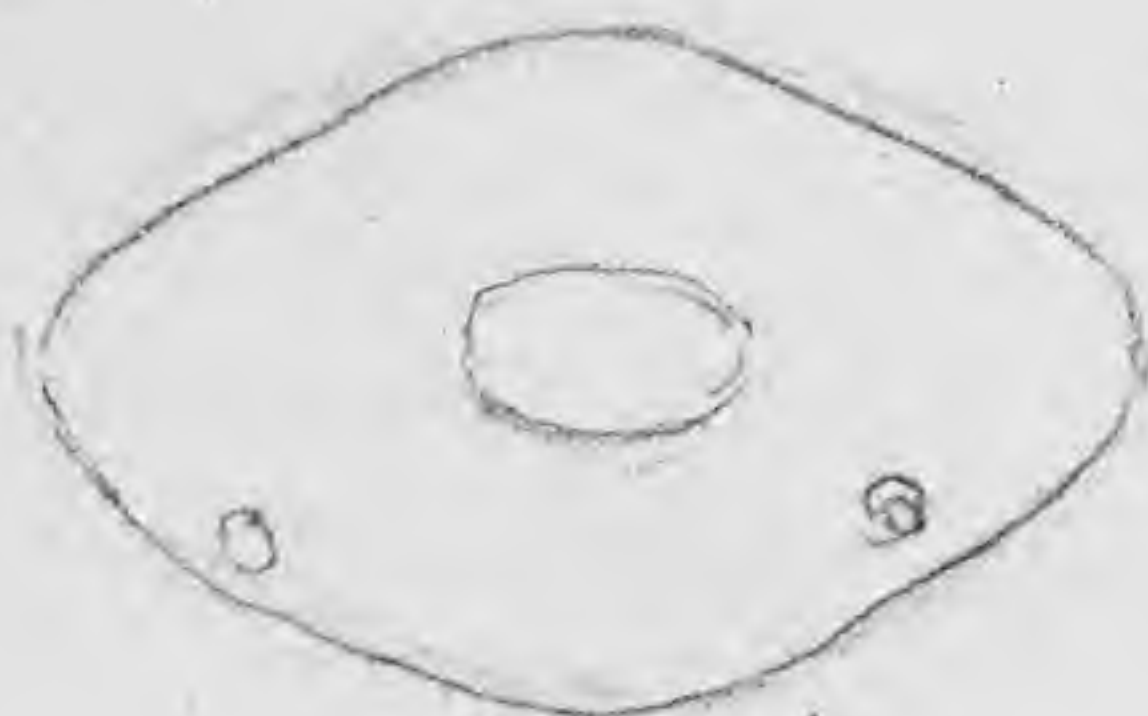
point of leaf



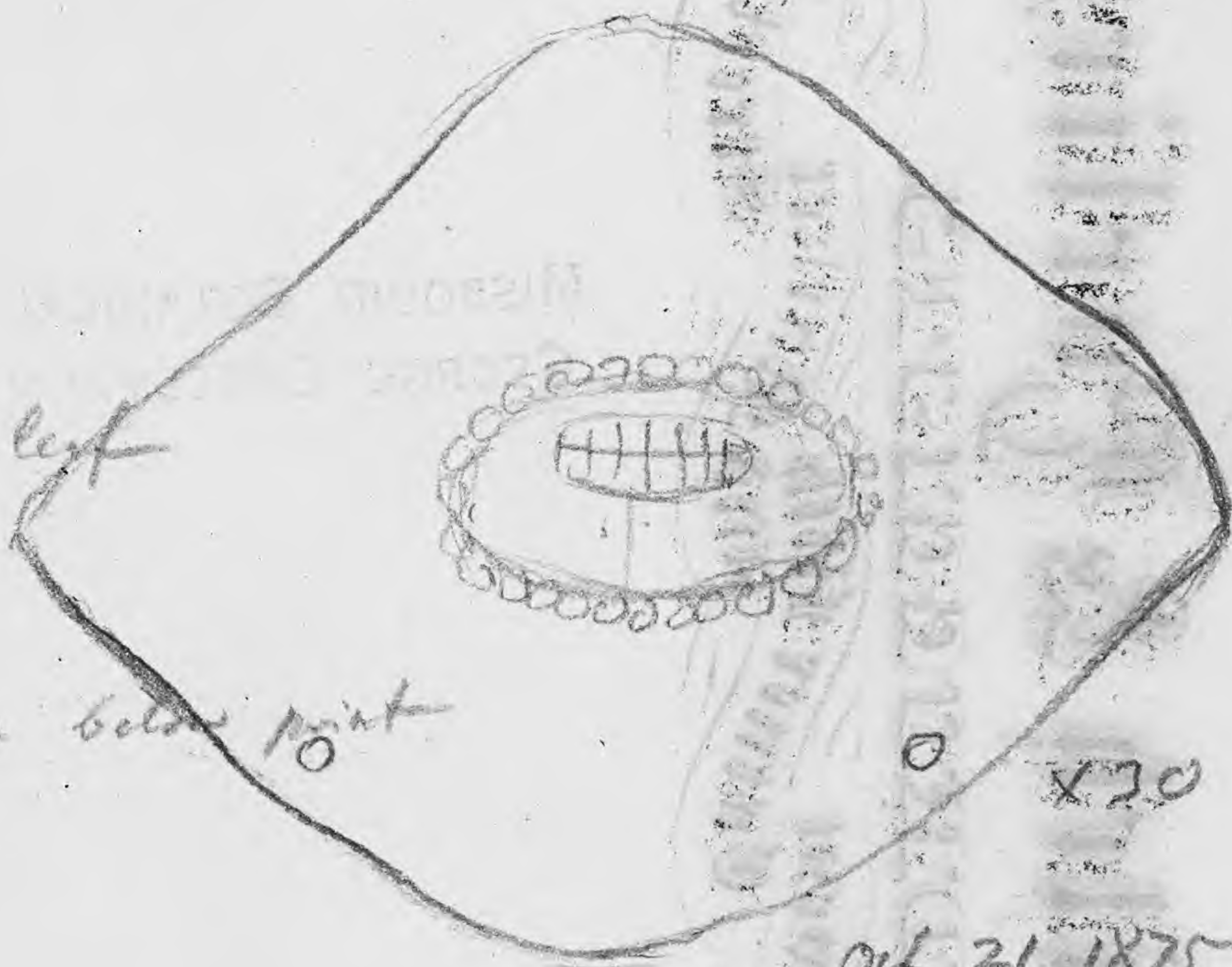
section below point



near middle



above base



X20

Oct 21 1875

Tip



0 1 2 3 4 5 6 7 8 9 10

cm

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Leitch & Corlies

DRUGGISTS

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Corner Fifth
and Market
Streets

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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

"*A. umbilicis*"
Polaroid of Clark's, sterile

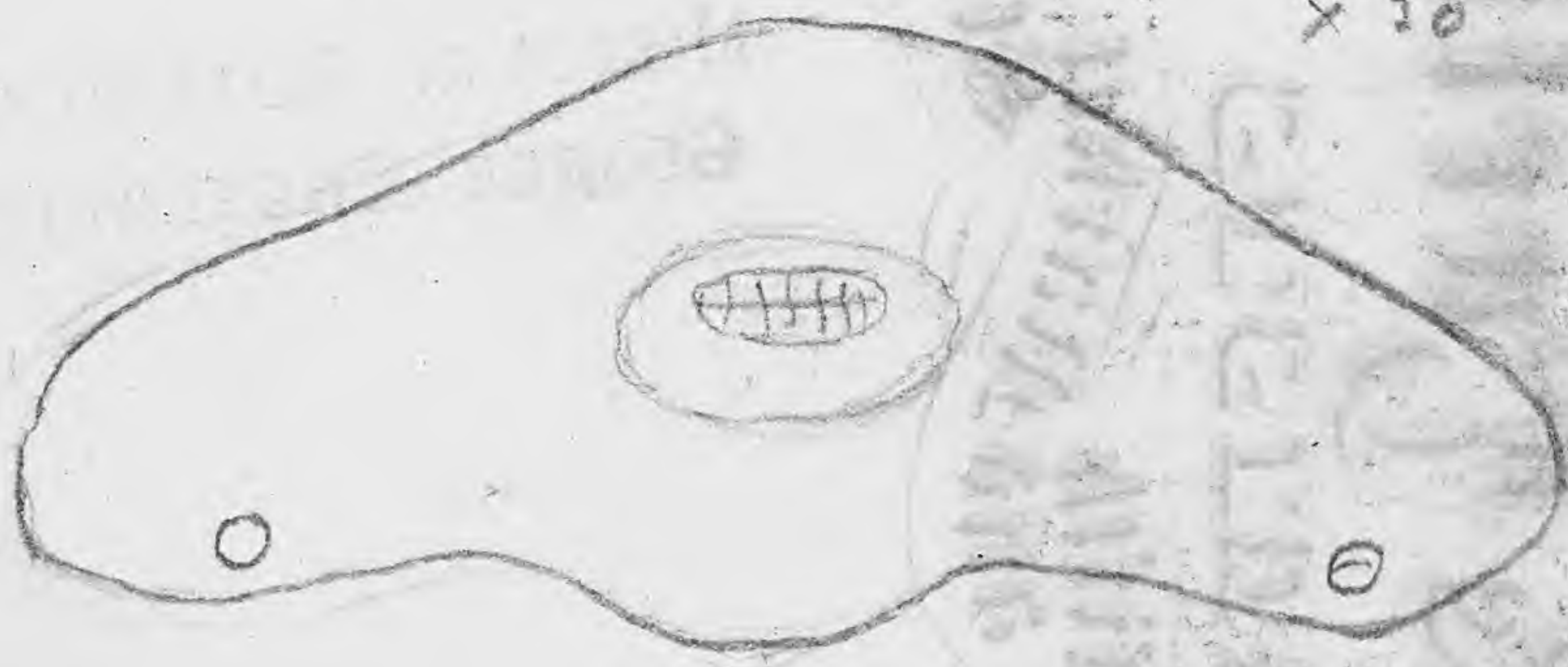
April 12 1872



x 10



x 20



Section of leaf
near tip



in middle



near base



Oct 21 1875



0 1 2 3 4 5 6 7 8 9 10

cm

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DRUGGISTS

South-west
Corner Fifth
and Market
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0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

24 Feb

A. magnifica

Simms



0 1 2 3 4 5 6 7 8 9 10

cm

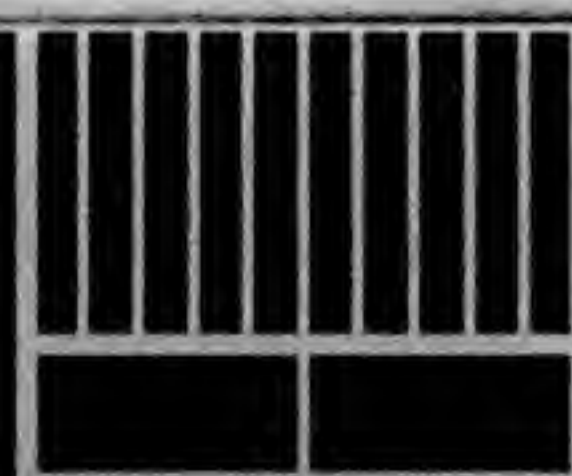
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12631

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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

6

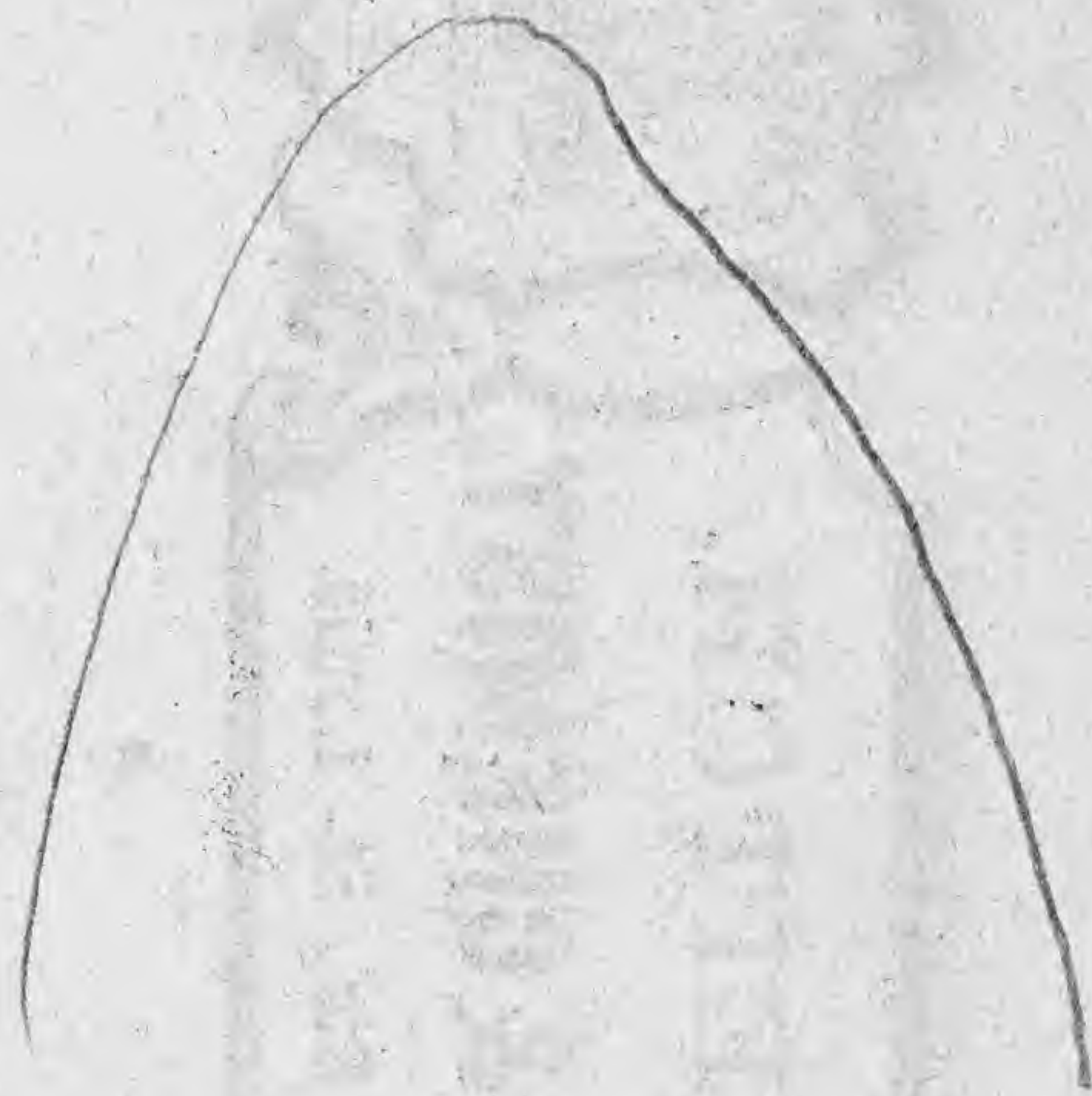
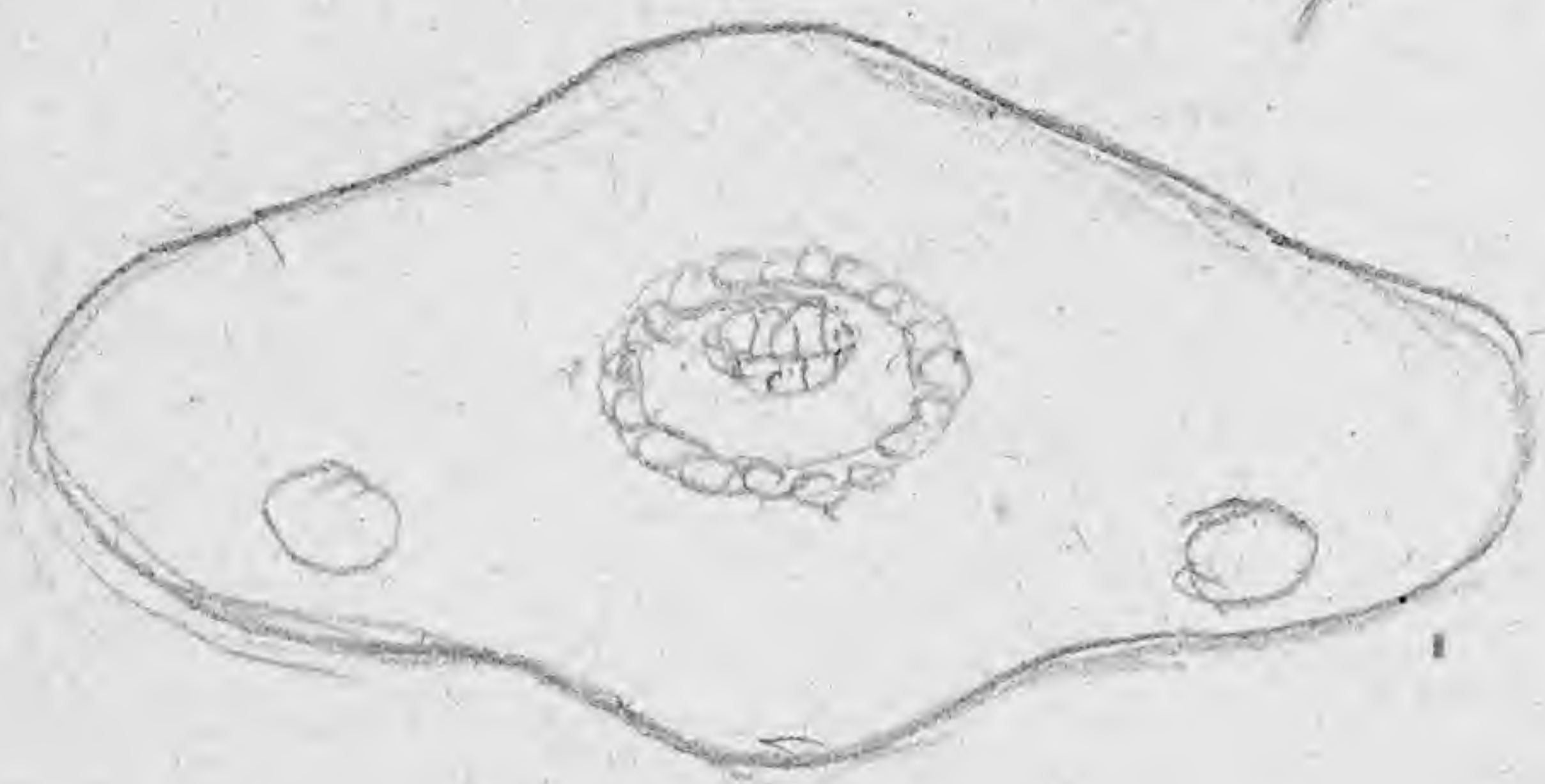
Abies megarhiza

Febr 20 1876

leaf of a vigorous young shoot

Californ. Larrierson 1875

x 30



12-14 lines of stomata above

4-5 in each band below

hypoderm cells on all 4 corners, none other



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

12632

CHEMIST



ALEX. LEITCH,
APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES
CONSTANTLY ON HAND



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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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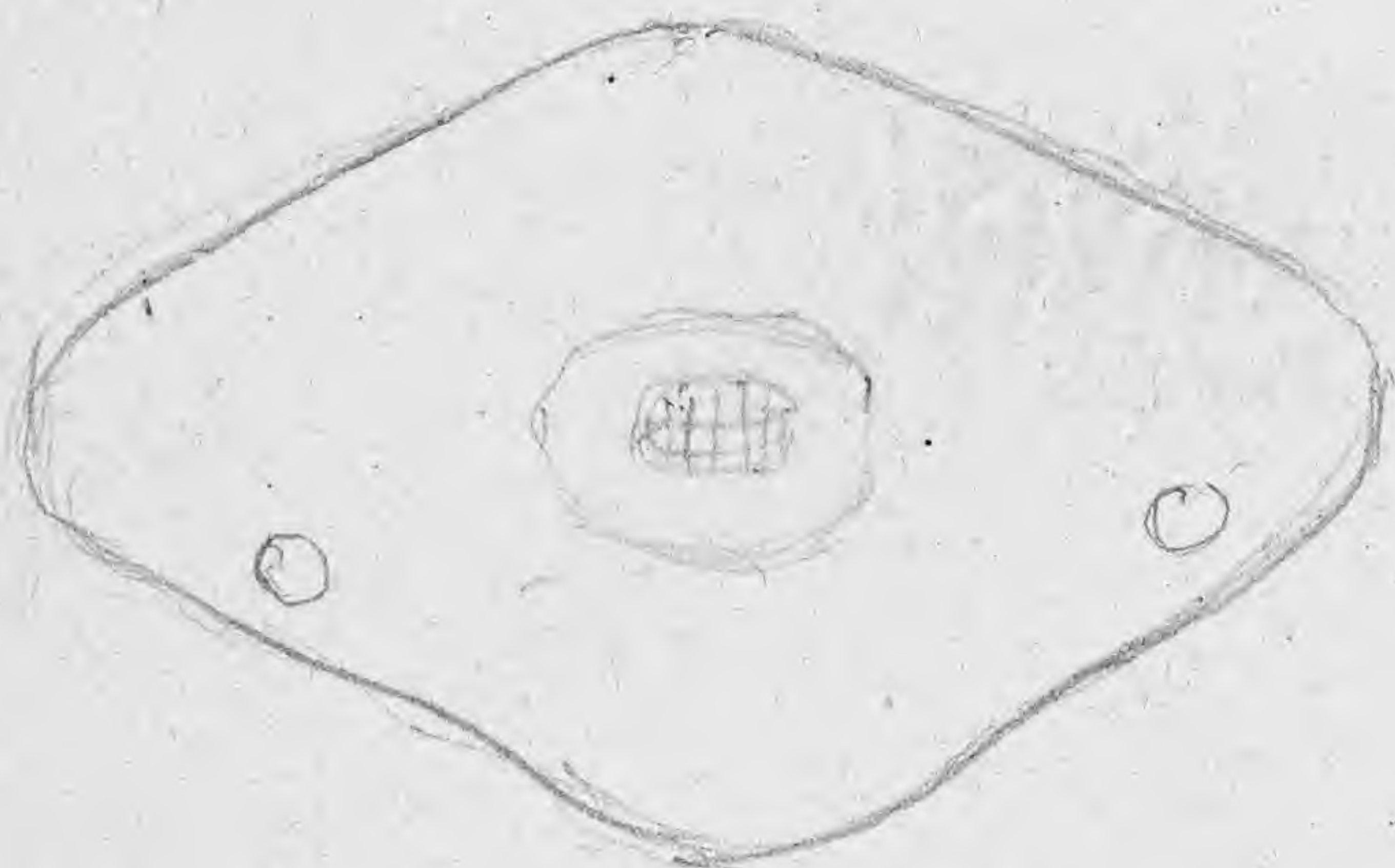
A

Abies magnifica

Febr 20 1876

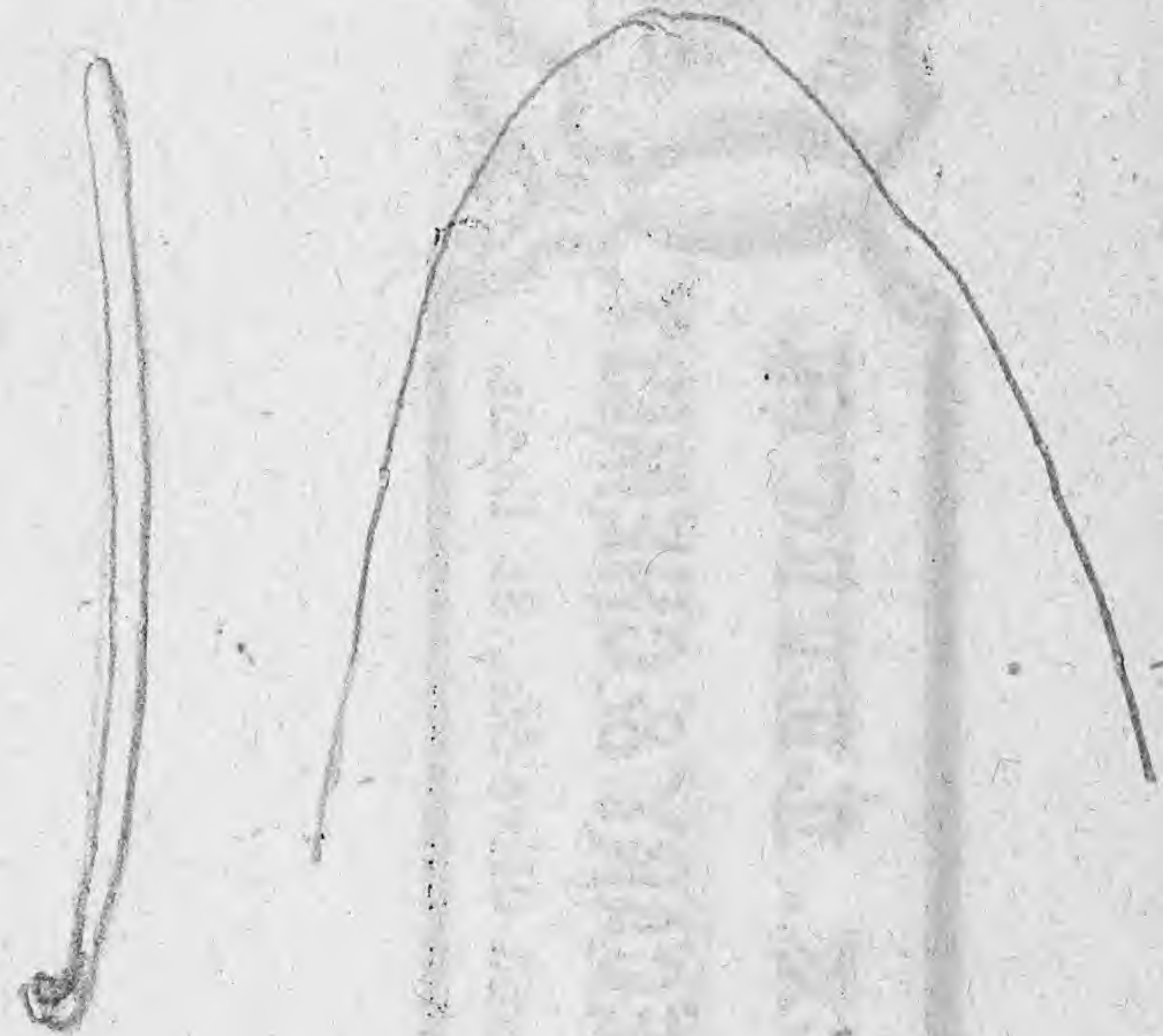
Sierra Valley, Lemmon. 1875

leaves of lower limbs



12-15 lines of stomata above

4-5 in each band below



leaves 1-1 1/2 inches

3/4 - 1 line wide



0 1 2 3 4 5 6 7 8 9 10

cm


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ALL THE NEW REMEDIES
CONSTANTLY ON HAND



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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

A. nobilis

April 11, 1872

Shasta, Jeffrey

J. W. Reed



section of leaf
near tip



at middle



near base



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 GEORGE ENGELMANN PAPERS
 HERBARIUM
 GEORGE ENGELMANN PAPERS
 HERBARIUM



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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12634

Leitch & Corlies

DRUGGISTS

South-west
Corner Fifth
and Market
Streets

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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

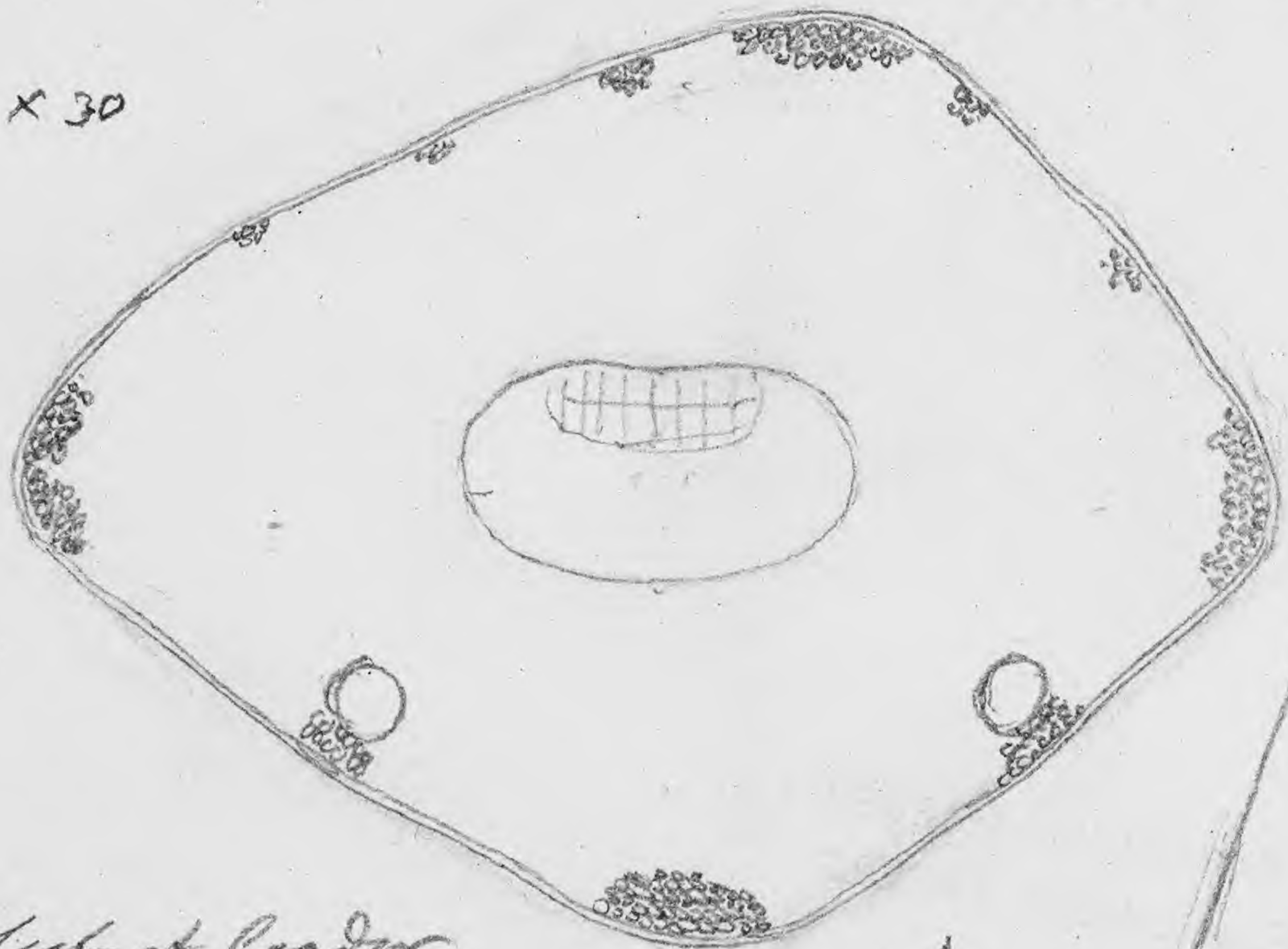
Abies magnifica, *bracteosa*
Shasta

Aug 1880

March 30

1881

x 30



leaf of leader
of an old tree



Tip x 30



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



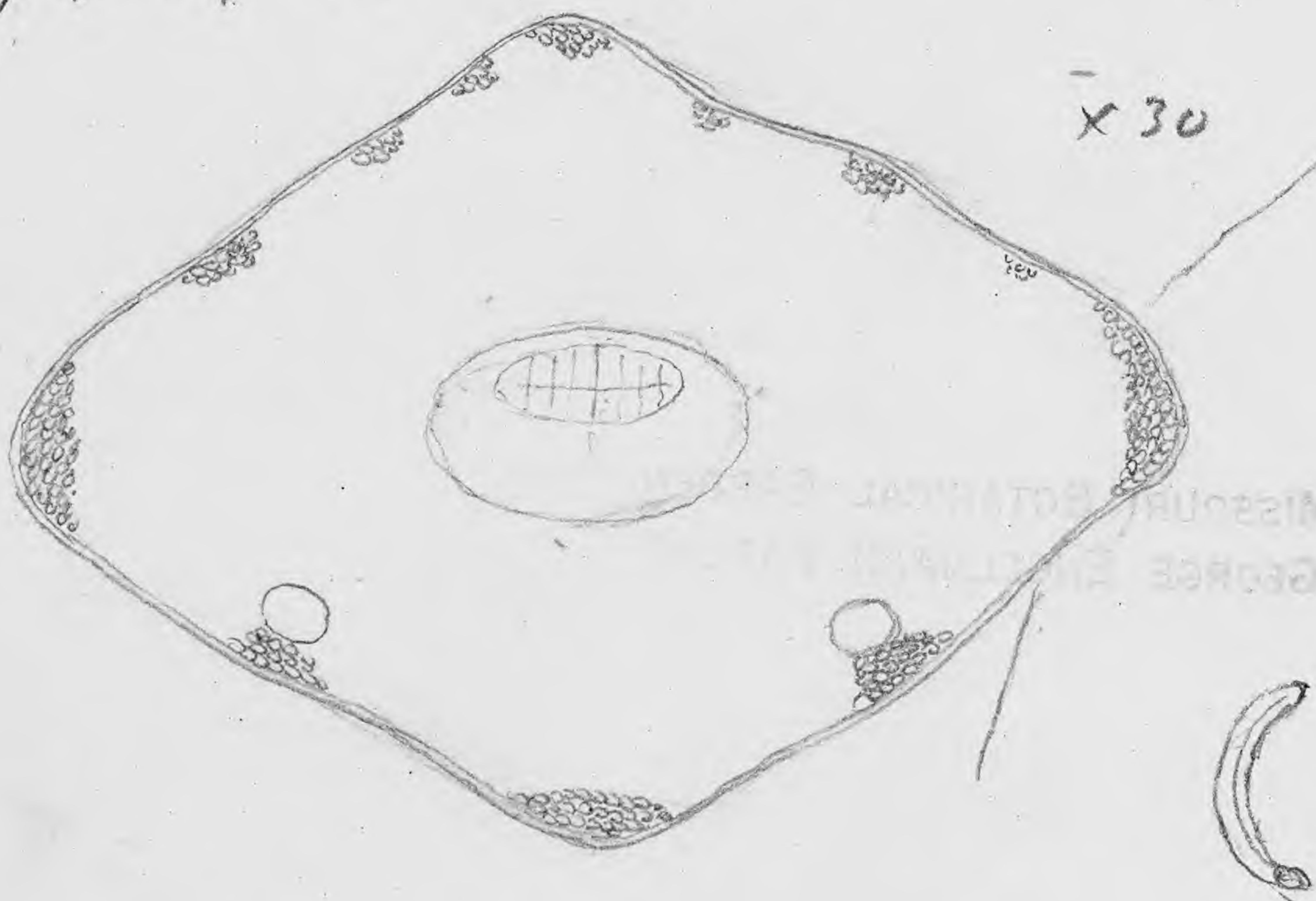
MISSOURI
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Abies magnifica bracteosa

March 31 1881

Shasta Aug 1880

Leaf of a fertile branch



Tip of leaf



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

12636

Leitch & Corlies

DRUGGISTS

**South-west
Corner Fifth
and Market
Streets**

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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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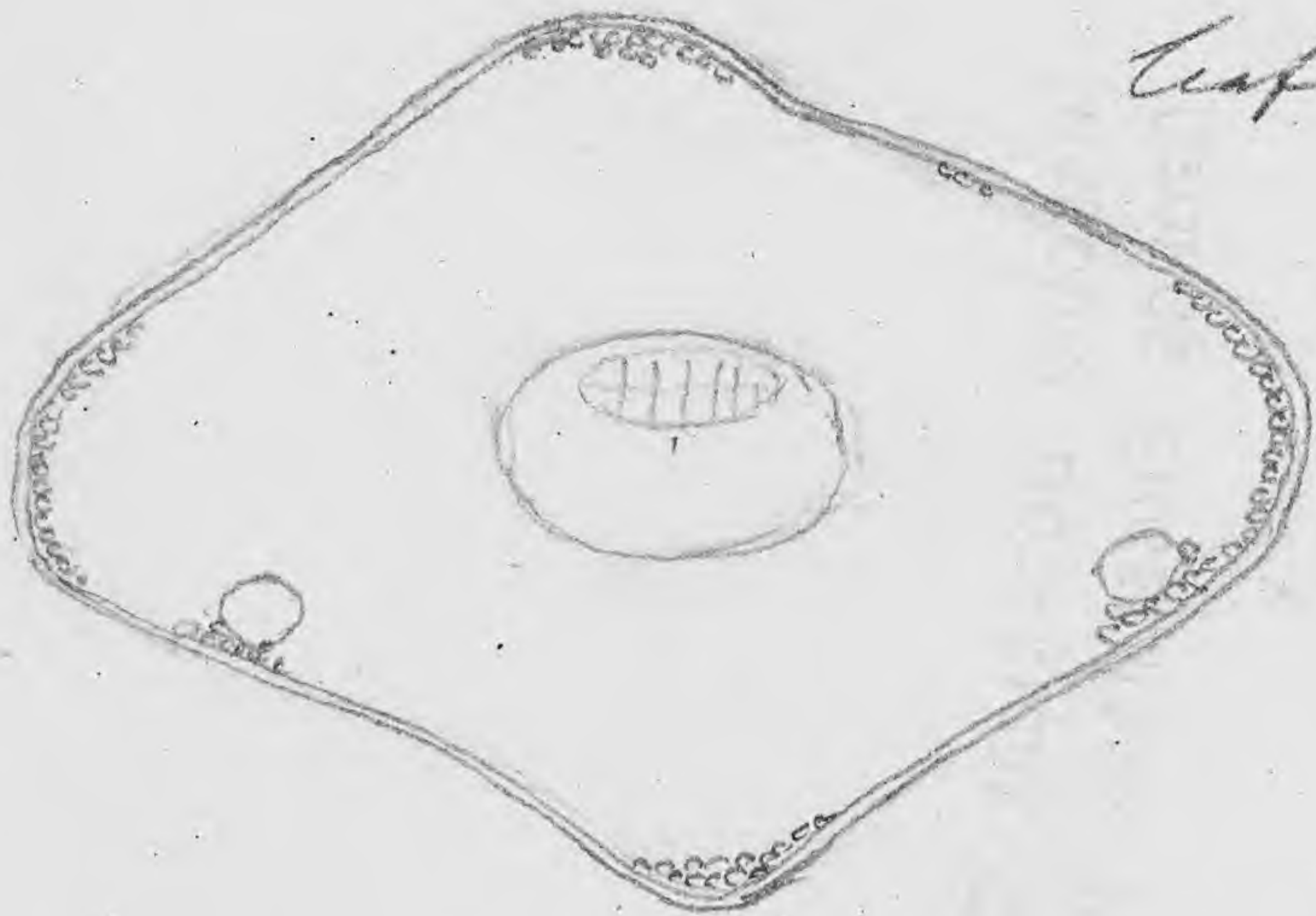
MISSOURI
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GARDEN

Abies magnifica var *bracteata*

March 31 1881

Shasta Aug 1880

Leaf of a lower, lateral branch



x 30



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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Leitch & Corlies

DRUGGISTS

South-west Corner Fifth and Street

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GEORGE ENGELMANN PAPERS

12637



0 1 2 3 4 5 6 7 8 9 10

cm

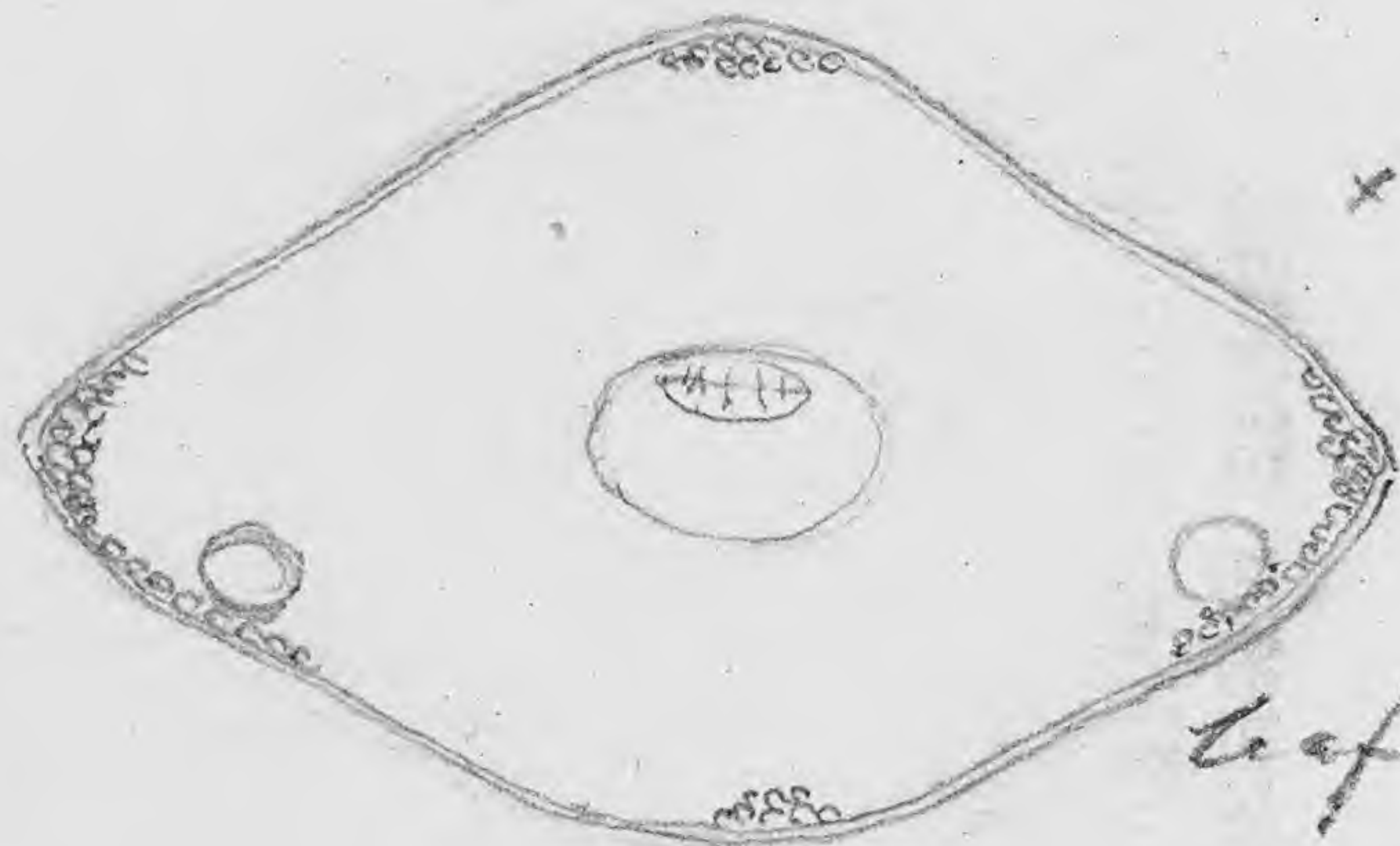
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Abies magnifica var *crutescens*
Shasta Aug 1880

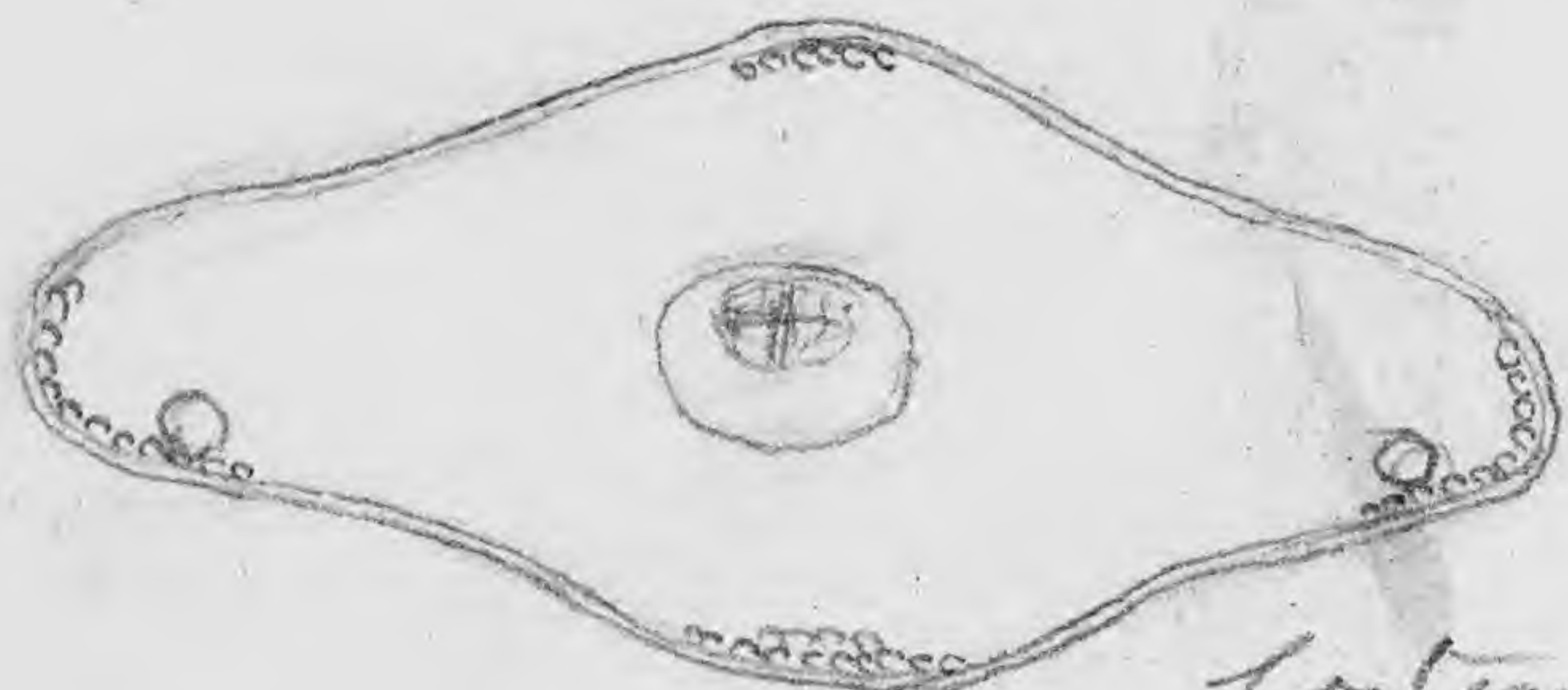
Mar 31 1881



x 30



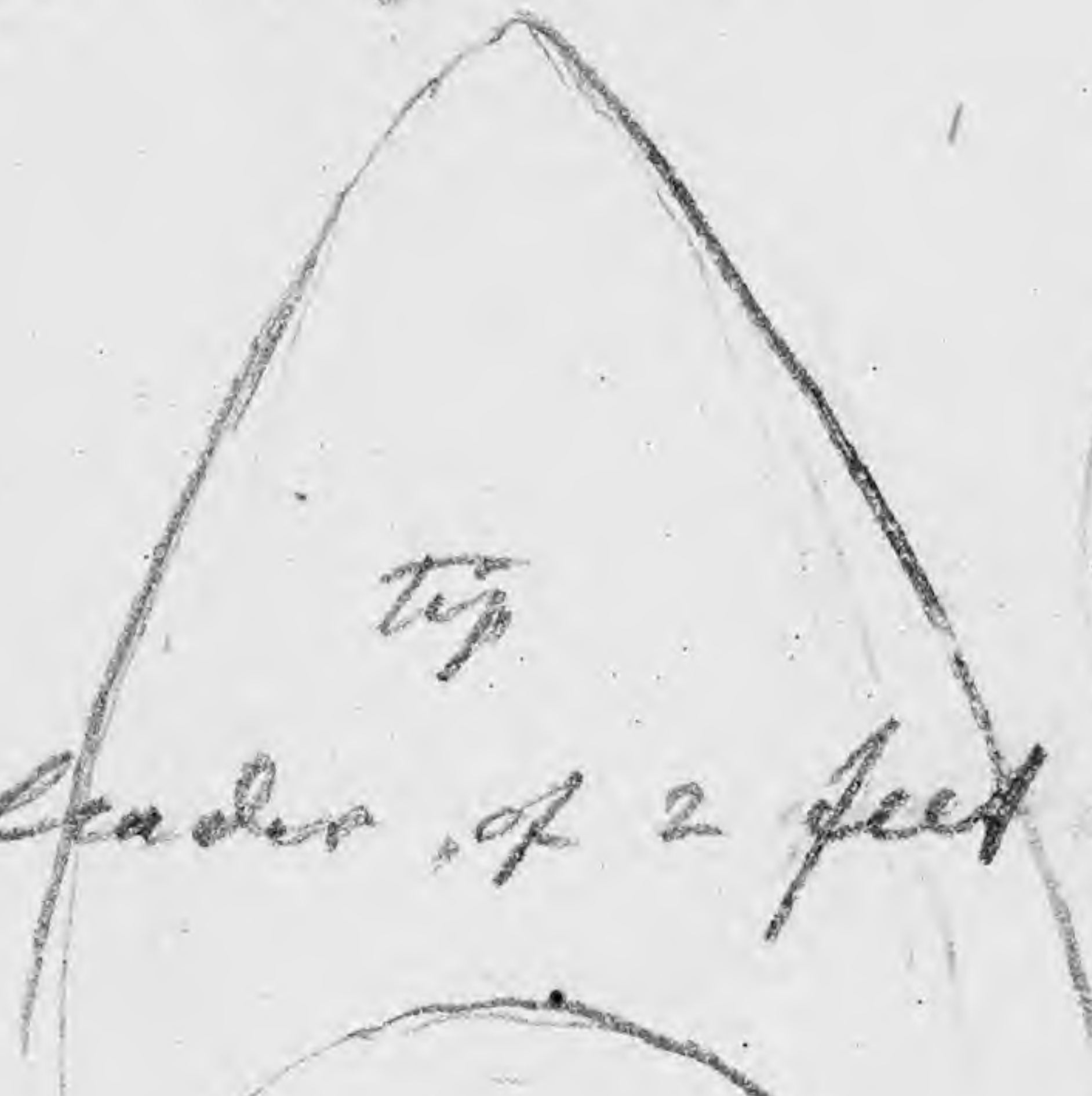
leaf of a leader of 2 feet high seedling



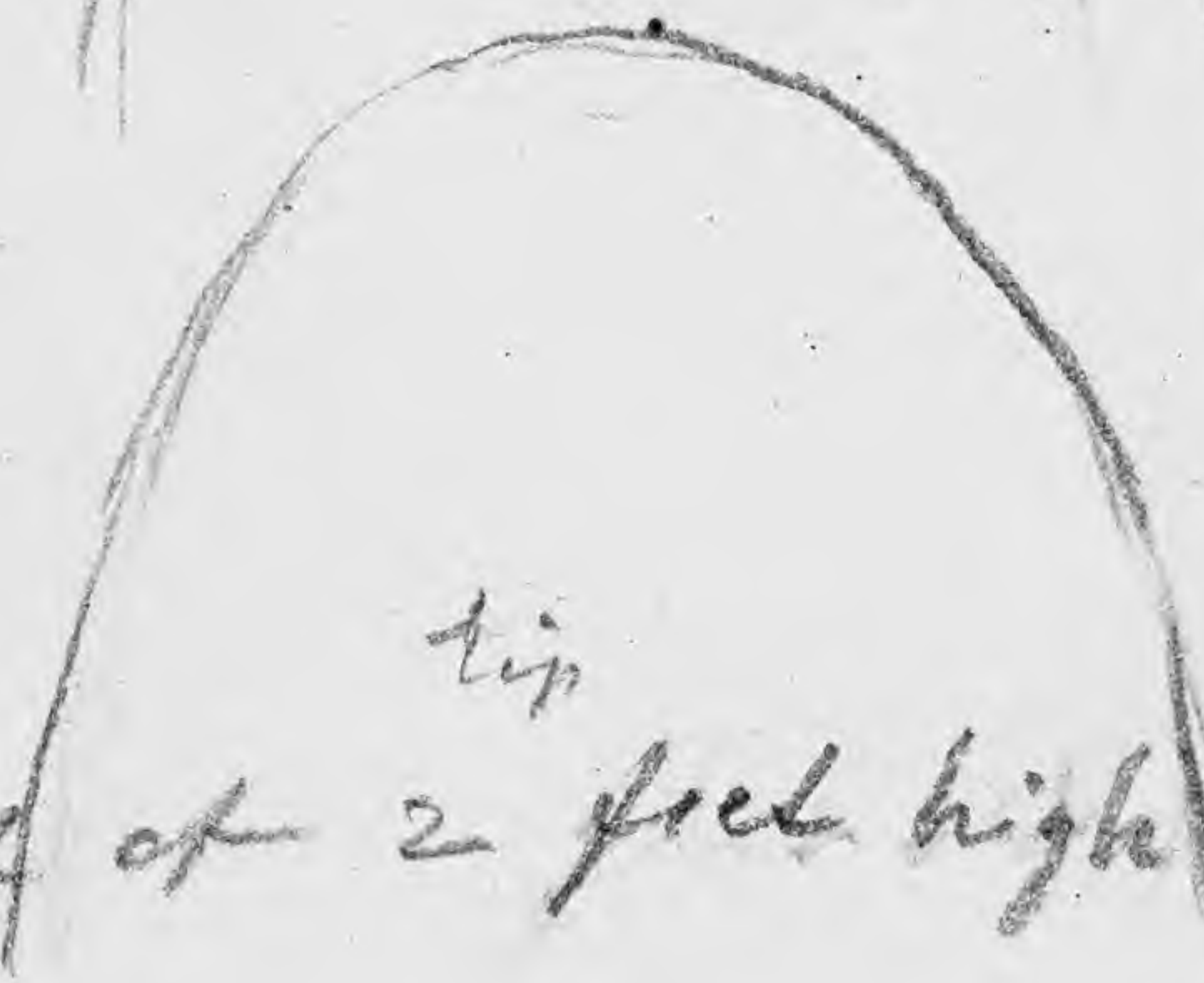
lateral



leaf of 2 feet high seedling



tip



tip



0 1 2 3 4 5 6 7 8 9 10

cm

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Leitch & Corlies

DRUGGISTS

South-west Corner
Fifth and Market
Streets

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12638



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

5 Feb

A. religiosa



0 1 2 3 4 5 6 7 8 9 10

cm

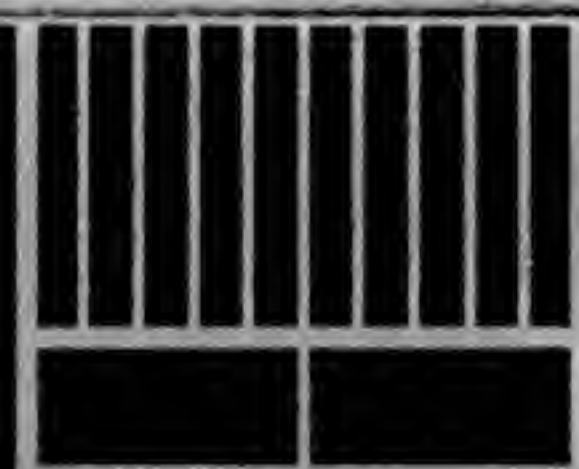
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GARDEN

12639

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0 1 2 3 4 5 6 7 8 9 10

cm

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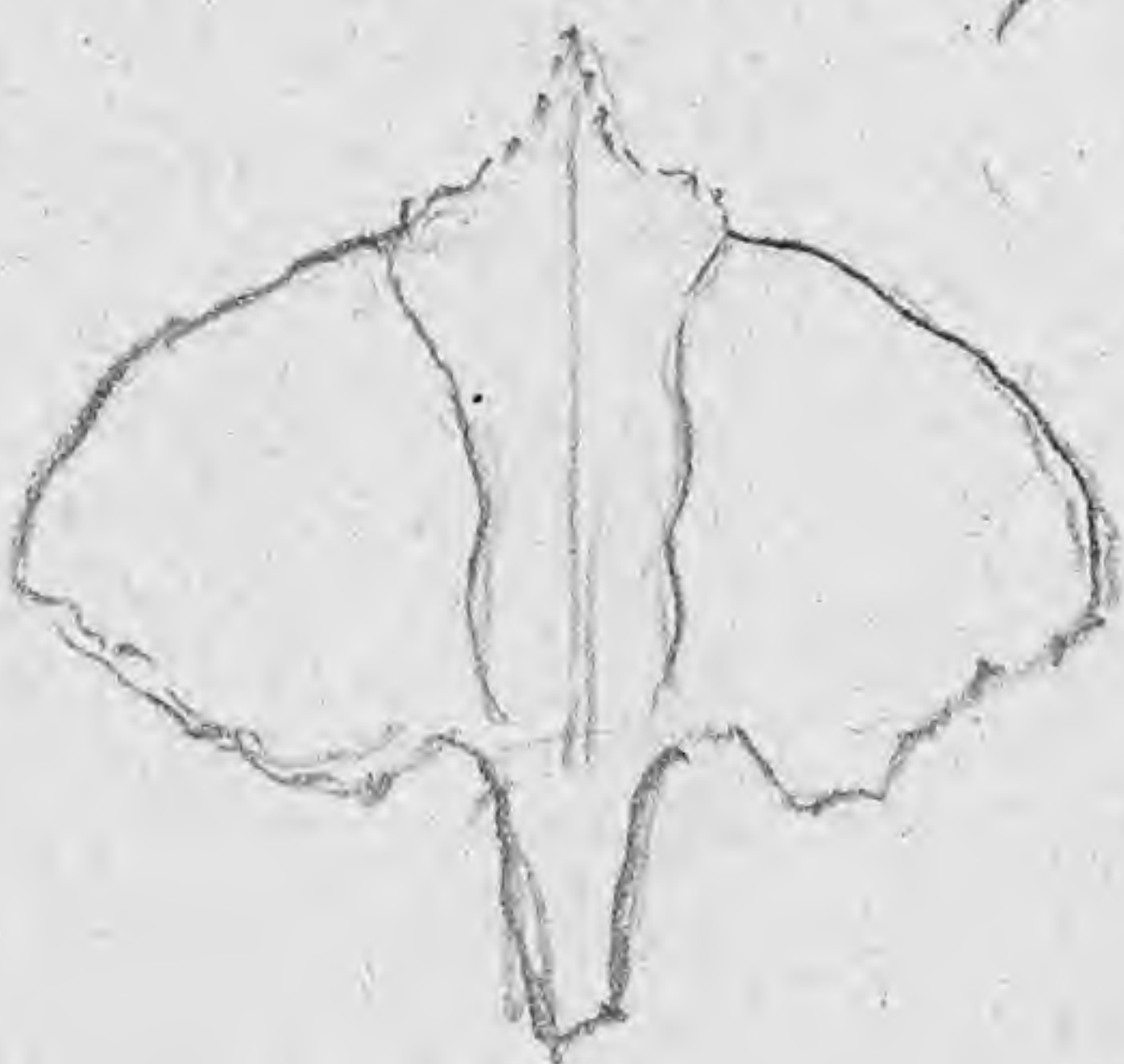
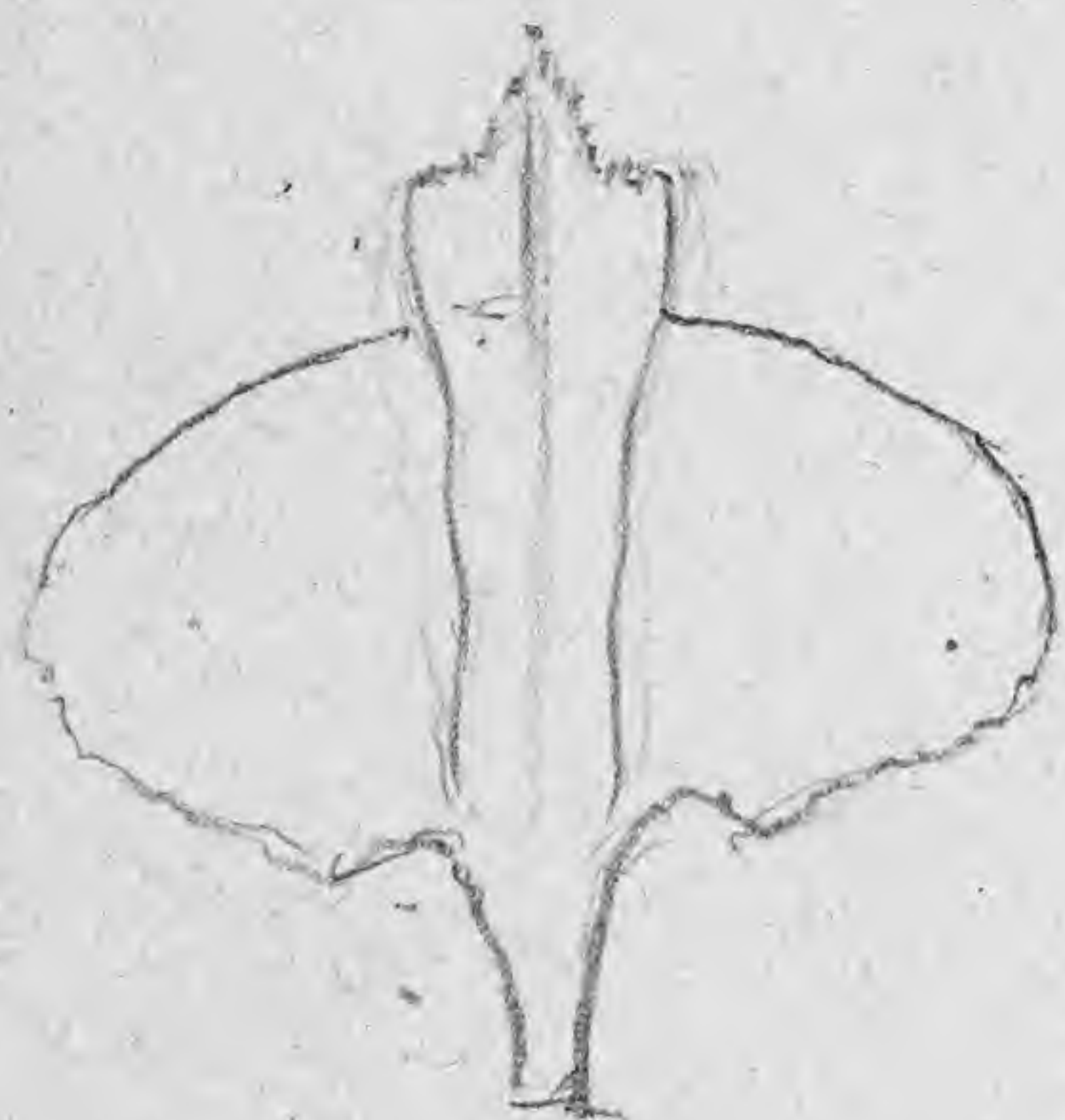


MISSOURI
BOTANICAL
GARDEN

Abies religiosa

Sept 13 1890

Mexico, Ehrenberg - No Berlin



24-26 x 13:14 ^{max}

width: height = 4 : 2

3 3/4 : 2



0 1 2 3 4 5 6 7 8 9 10

cm

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12640



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0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

1221

A. religiosa

Oct 5 1875

Chrouby 655

Hb. Berlin

no stomata



x 30

no stomata



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GEORGE ENGELMANN PAPERS
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

12641

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Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

12642

Leitch & Corlies

DRUGGISTS

*South West
Corner Fifth
and Market
Streets.*

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0 1 2 3 4 5 6 7 8 9 10

cm

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Alnus reticulosa

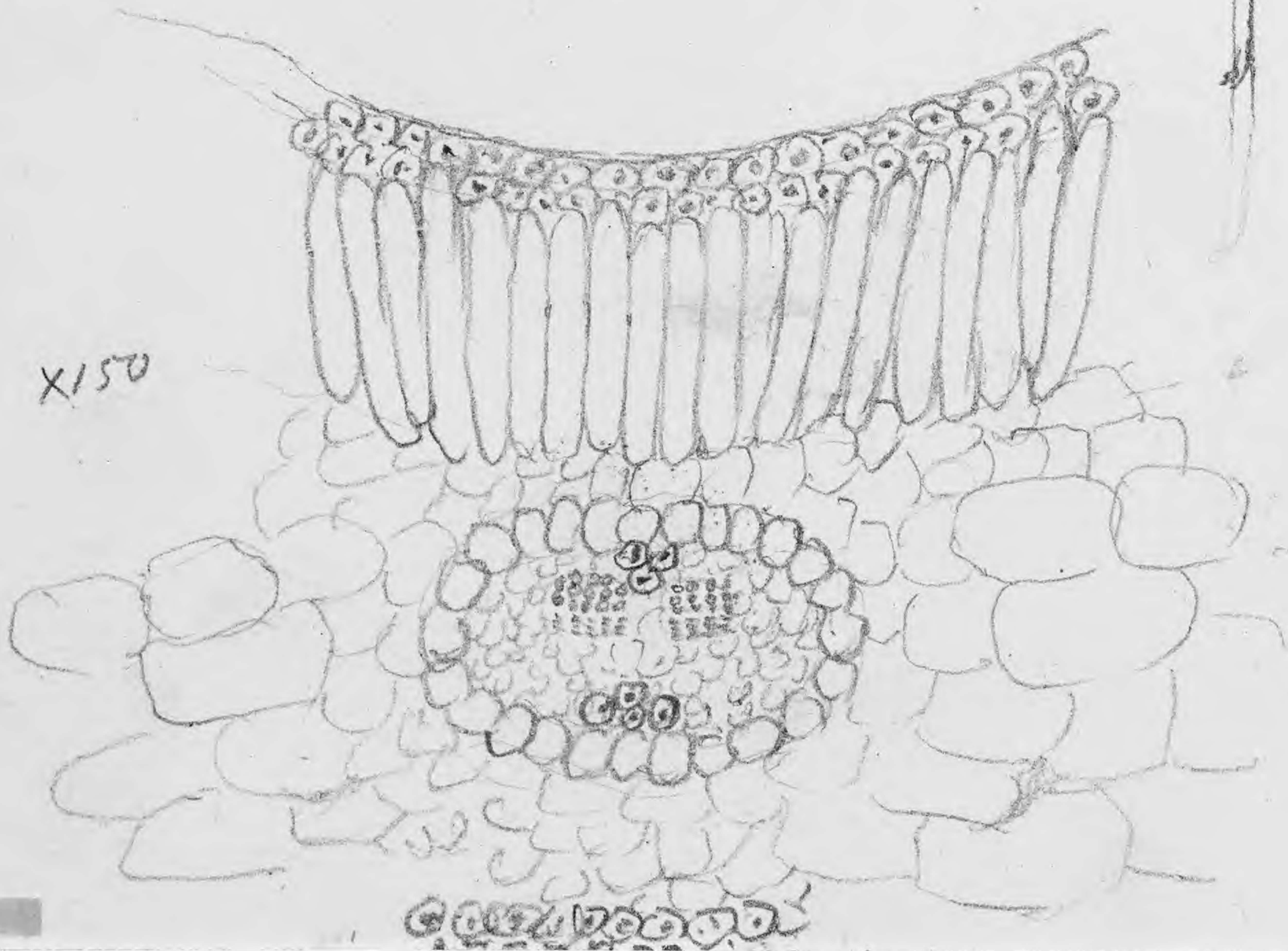
Oct 6 1875

Mexico, Verde 18 Hb. Berlin

x 30



x 150



Messrs. Baugh & Co. Lith. & Engr. 212 N. 3rd St. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN

GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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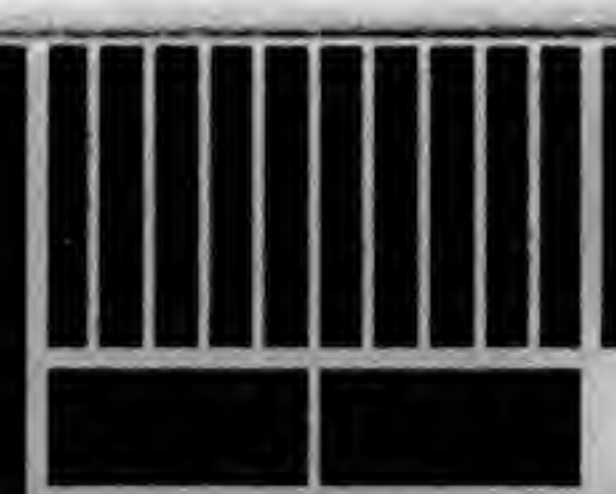
MISSOURI
BOTANICAL
GARDEN

12643

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0 1 2 3 4 5 6 7 8 9 10

cm

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A. religiosa

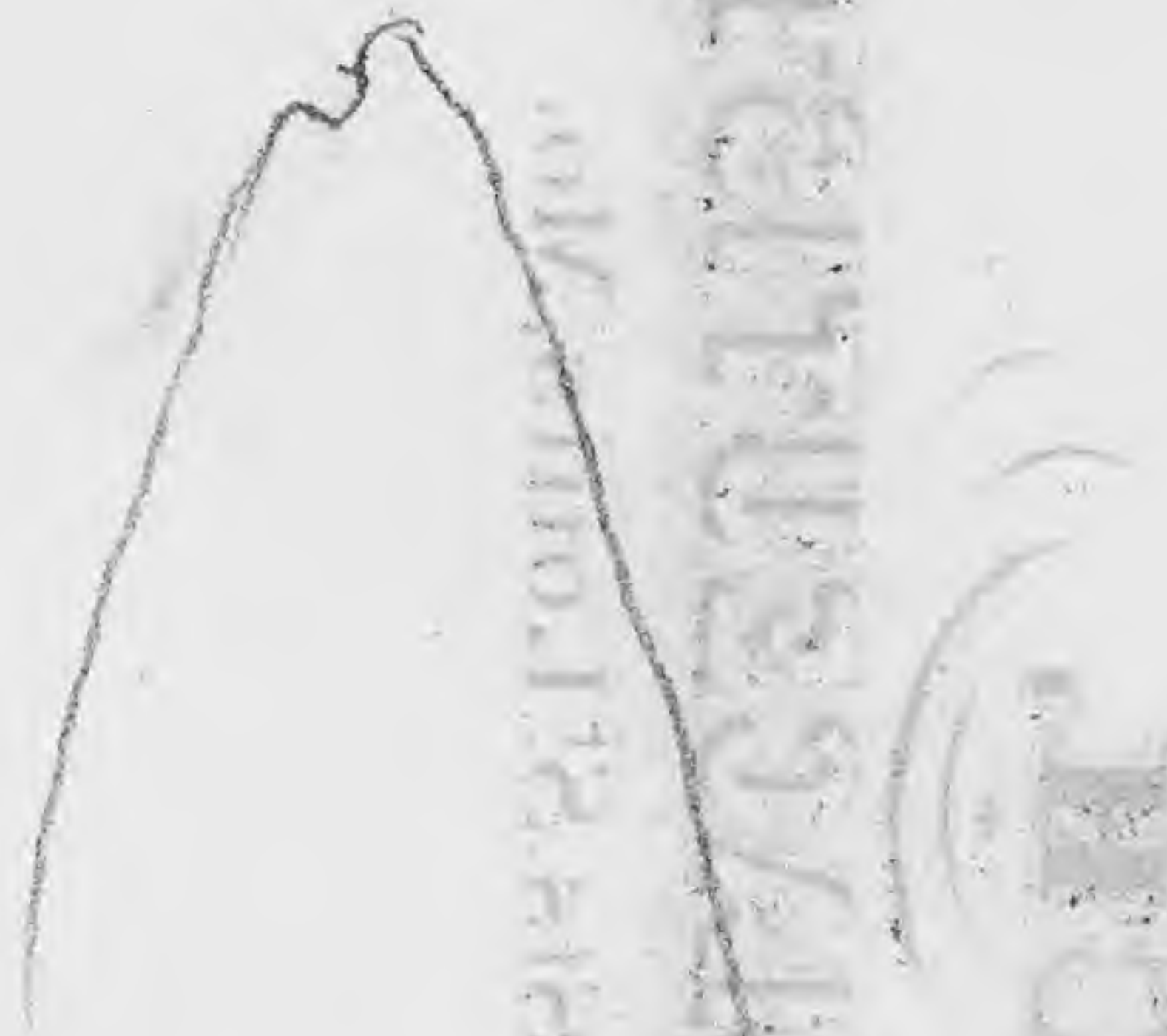
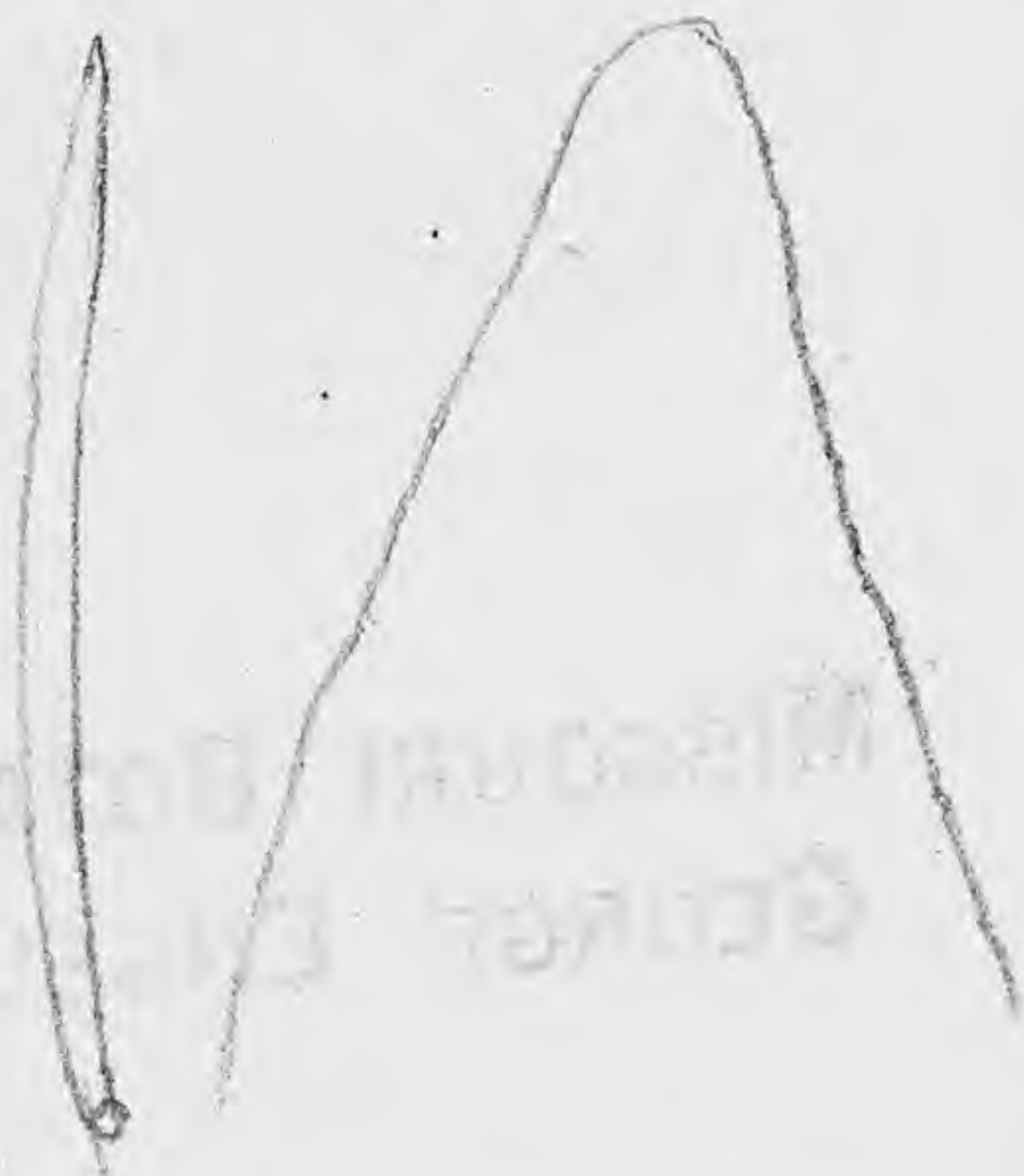
Oct 5 1875

Dr. Gregg 663

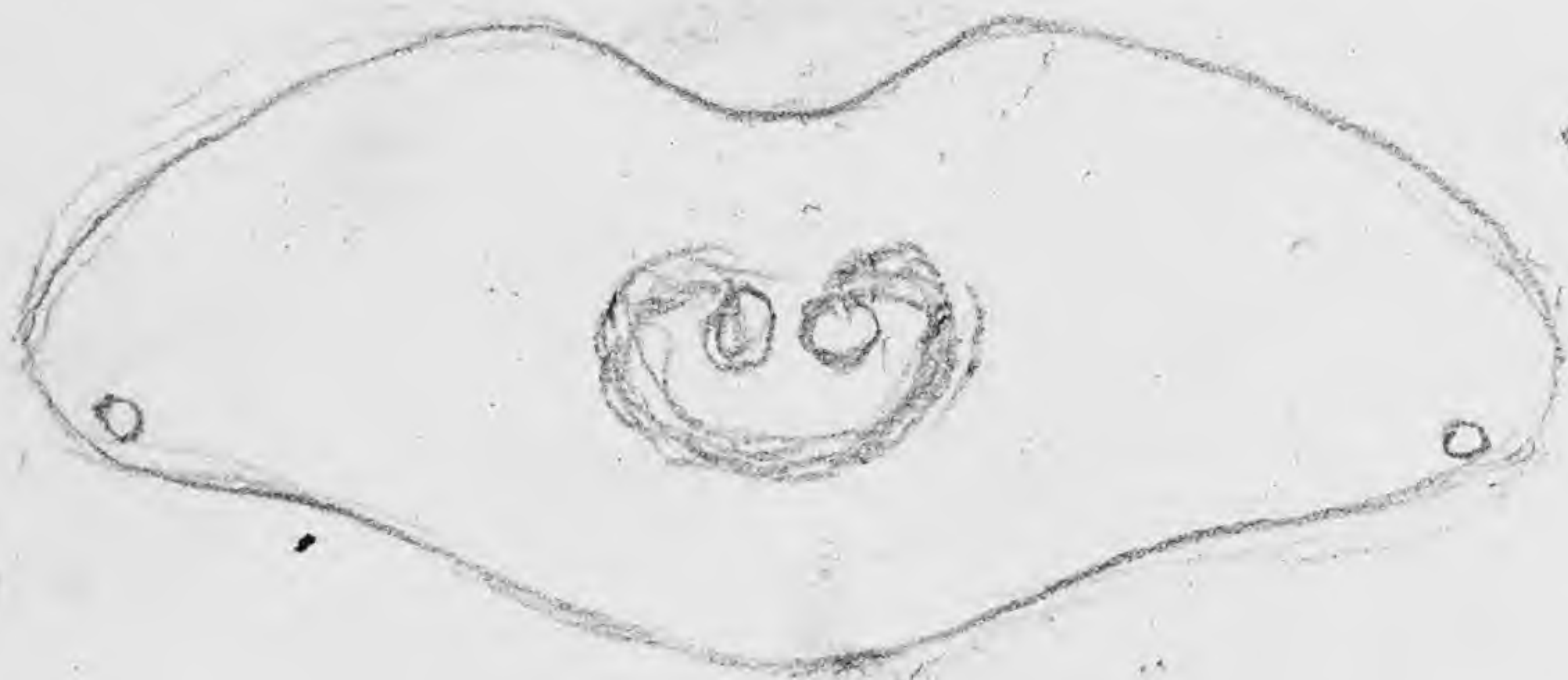
no stamens



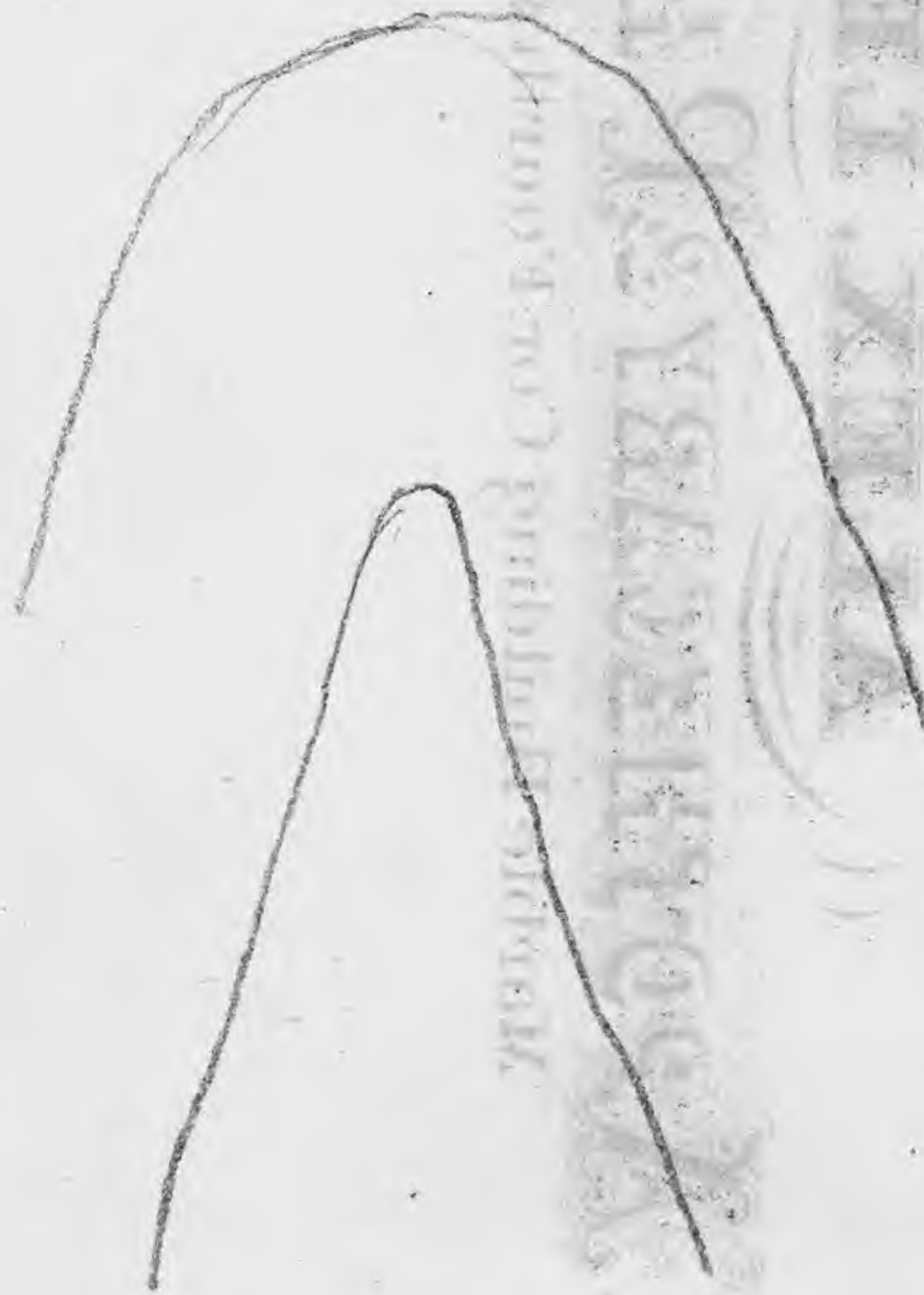
x 30



no stem



Dr. Gregg 689



no stem



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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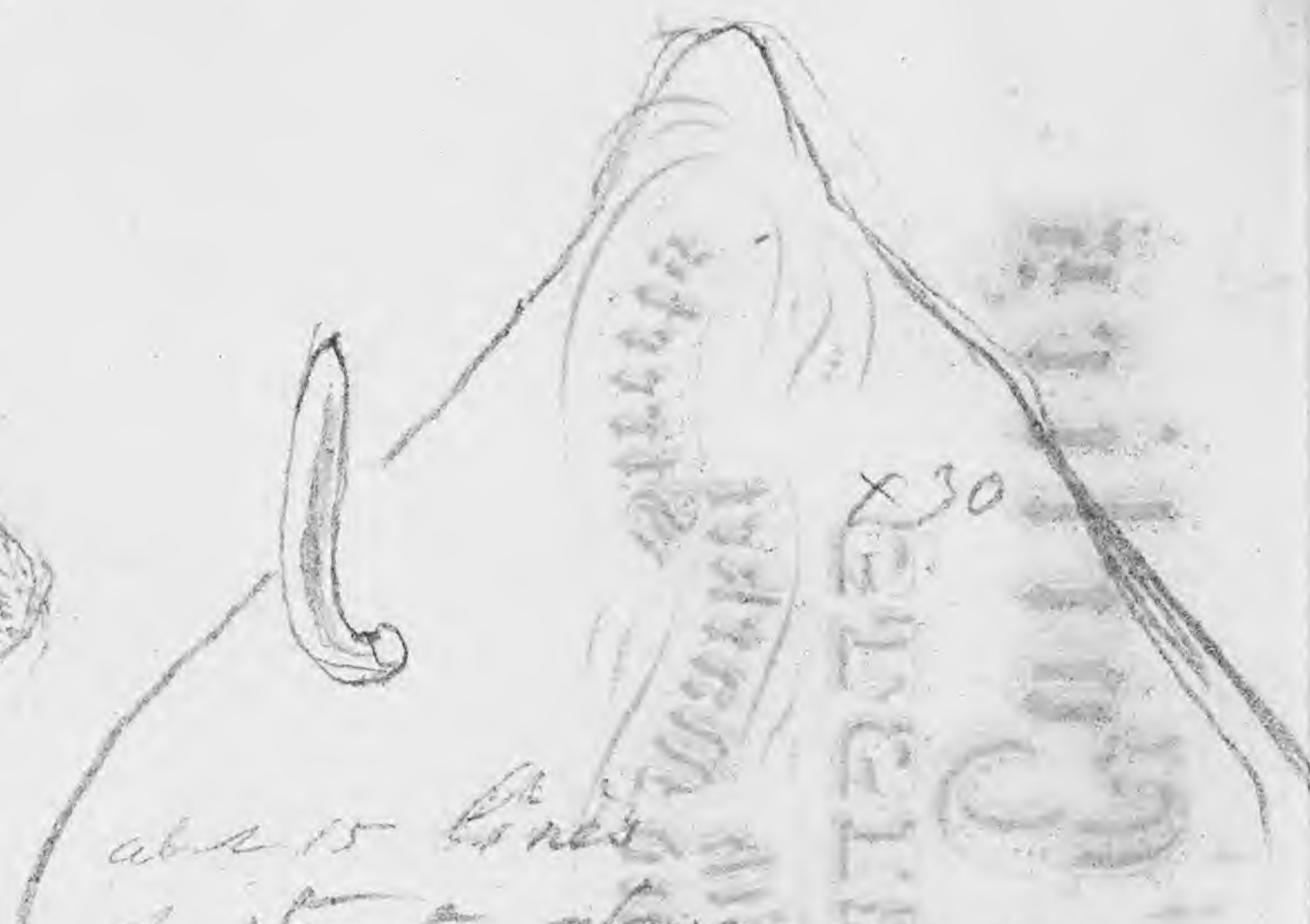
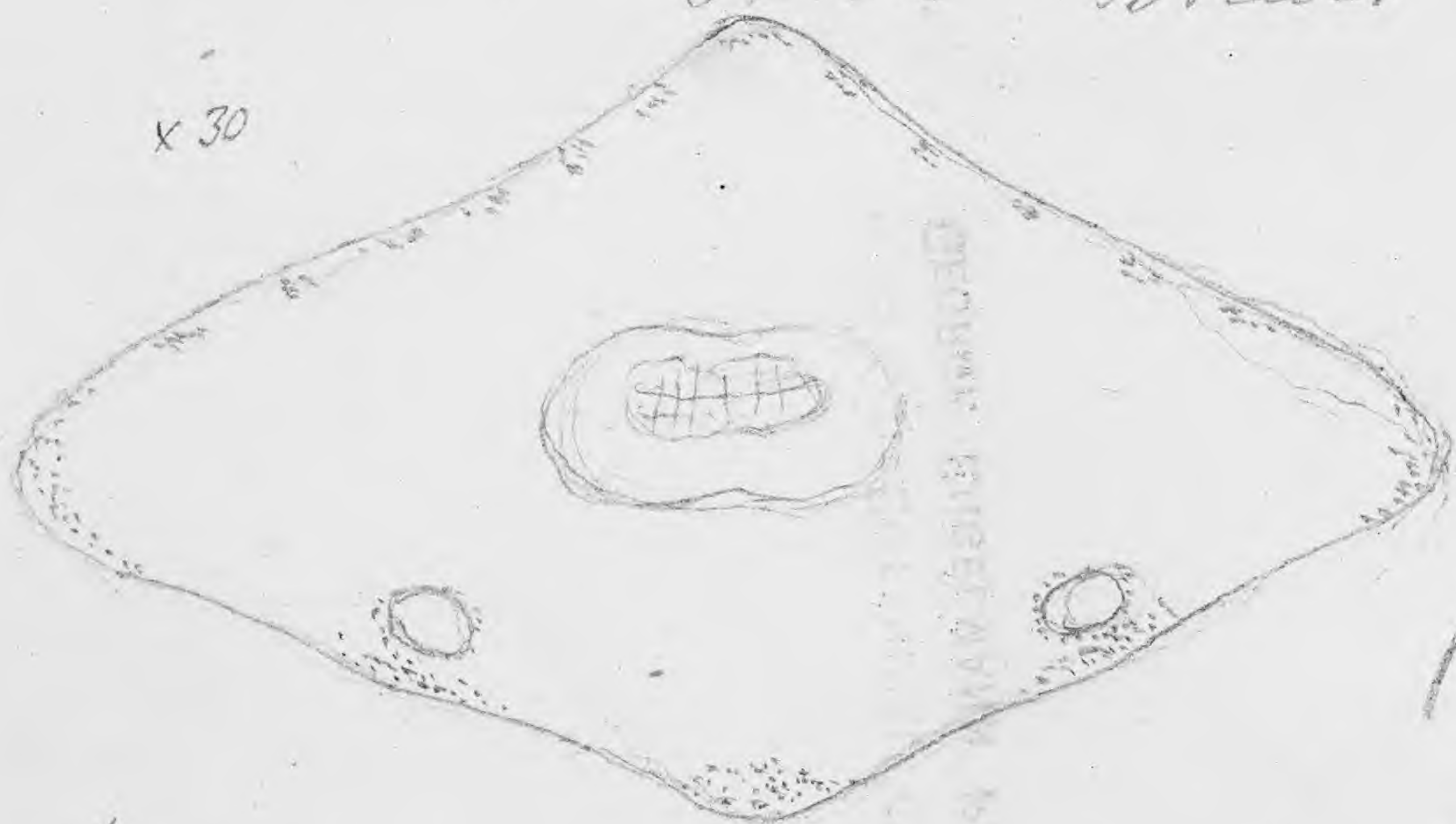


MISSOURI
BOTANICAL
GARDEN

A. nobilis
Sparta Brewer

March 11 1876

x 30



abs 15 lines
of stoma above
and 16 in 4 bands
each of 4. Below bands
divided by the hypo-
dermis & ducts

hypoderm crowded (5 layers) at lower carina
about 3 layers on edges, 1 or 2 under the ducts
less on upper carina - interrupted all around upper epiderm.
a band of hypoderm cells surrounding the large ducts.



0 1 2 3 4 5 6 7 8 9 10

cm

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Wirth & Corlies

DRUGGISTS

South-west
Corner Fifth
and Market
Streets

MISSOURI BOTANICAL GARDEN
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12645



0 1 2 3 4 5 6 7 8 9 10

cm

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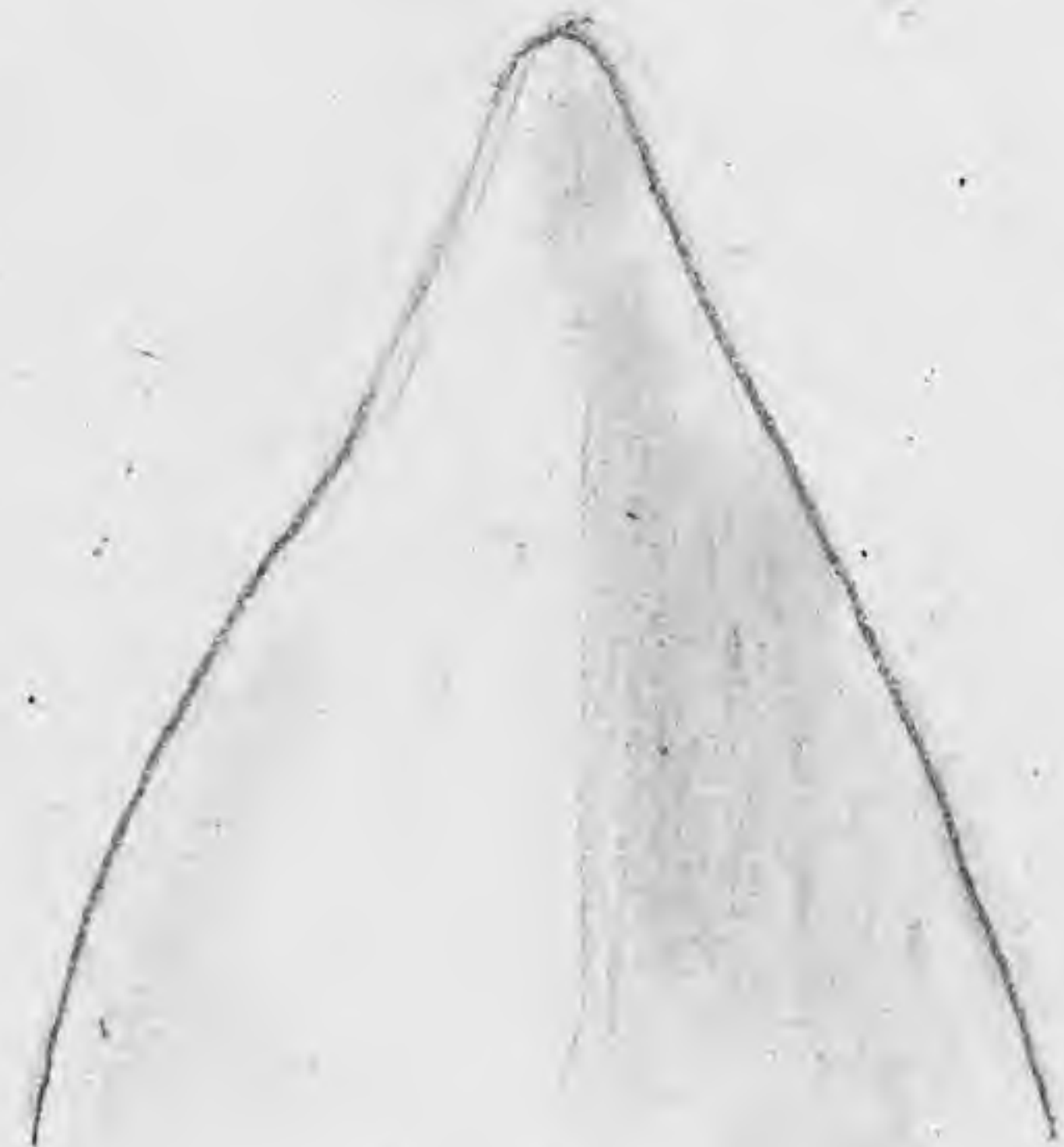


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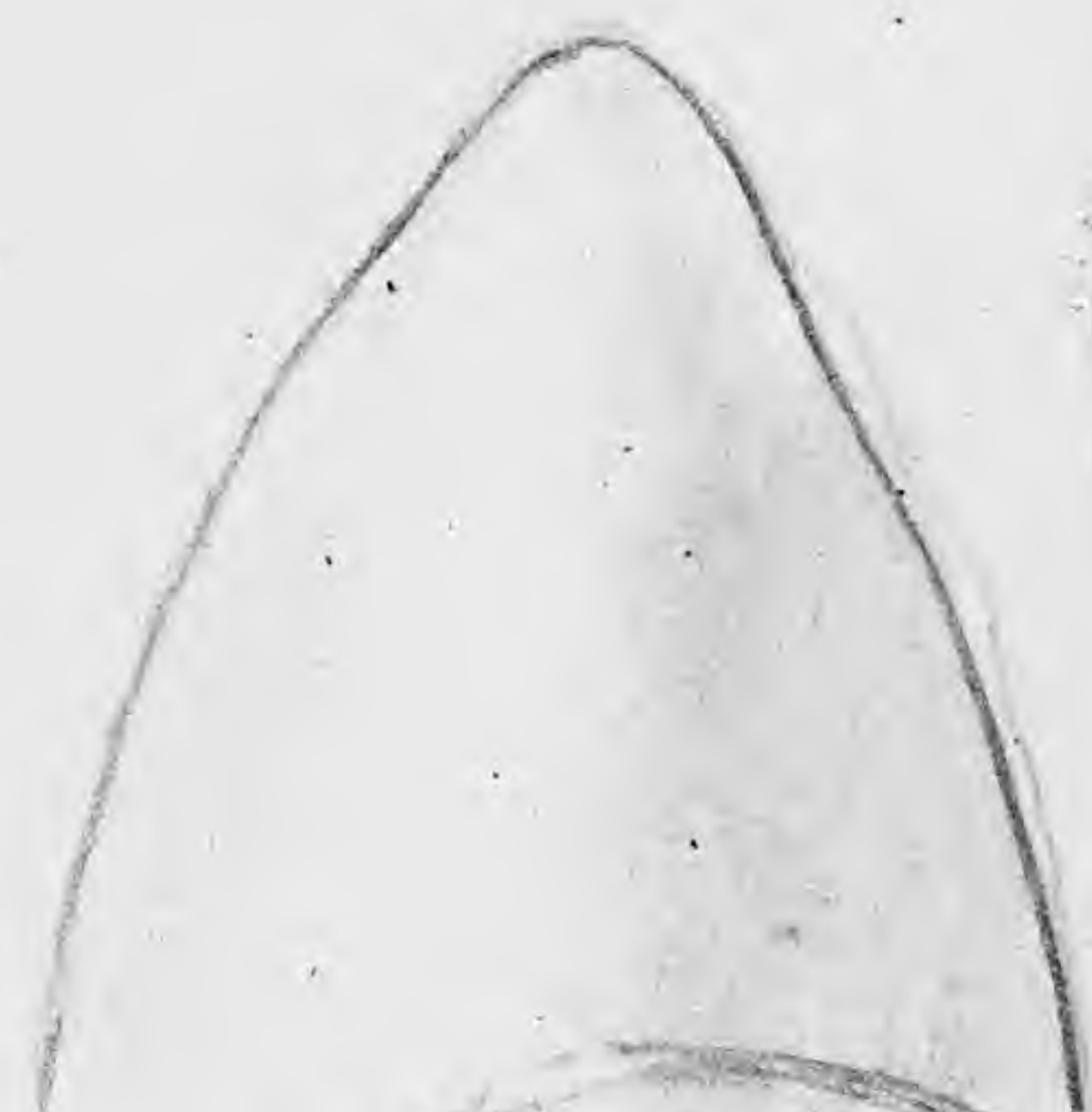
A. nobilis

April 13 1872

Mt Shasta, Brewer No 1401



x10



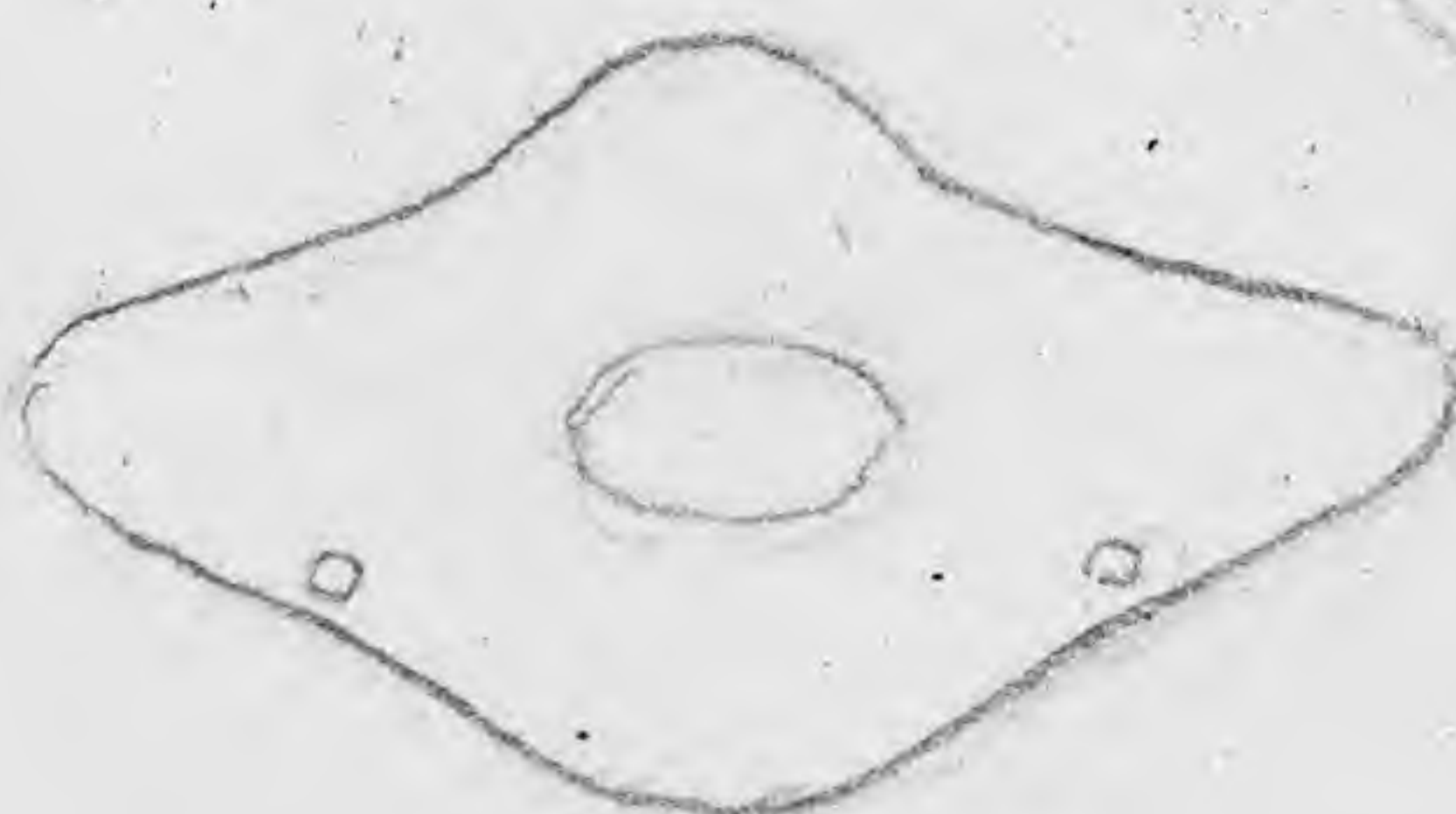
Oct 19 1875

below
section of tip
of leaf

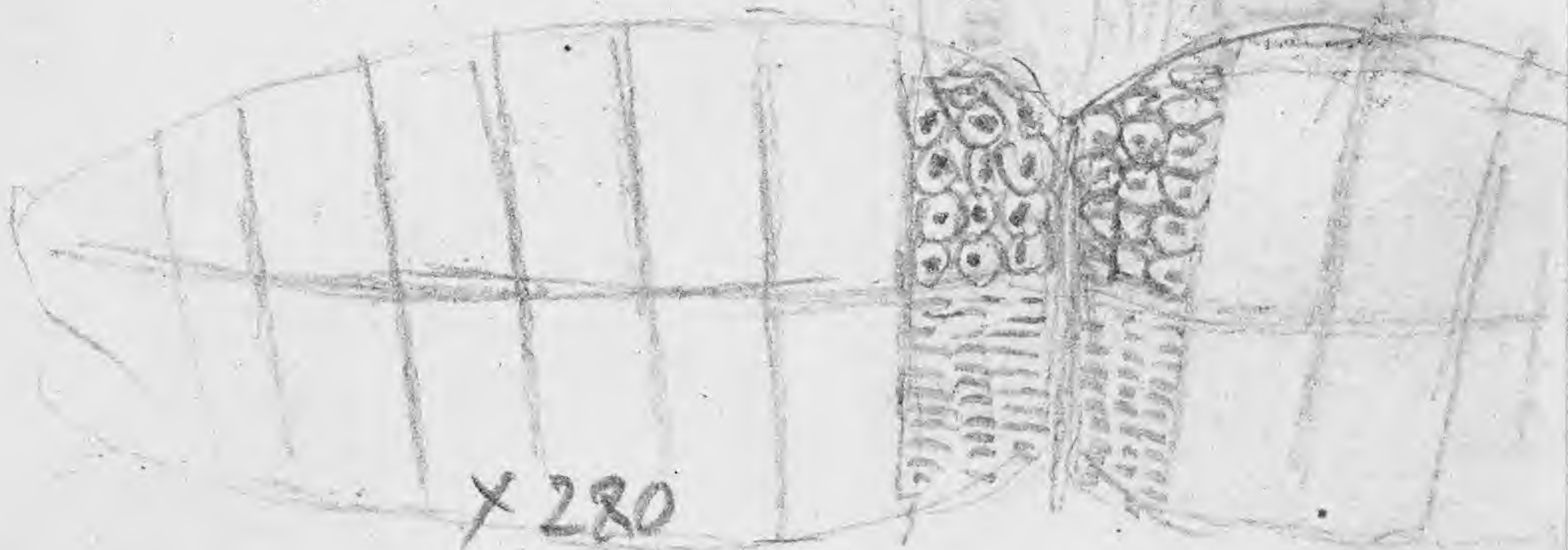


x30

middle



near base



x280



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

Wright & Corlies

DRUGGISTS

South-west
Corner
Market
Street

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0 1 2 3 4 5 6 7 8 9 10

cm

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